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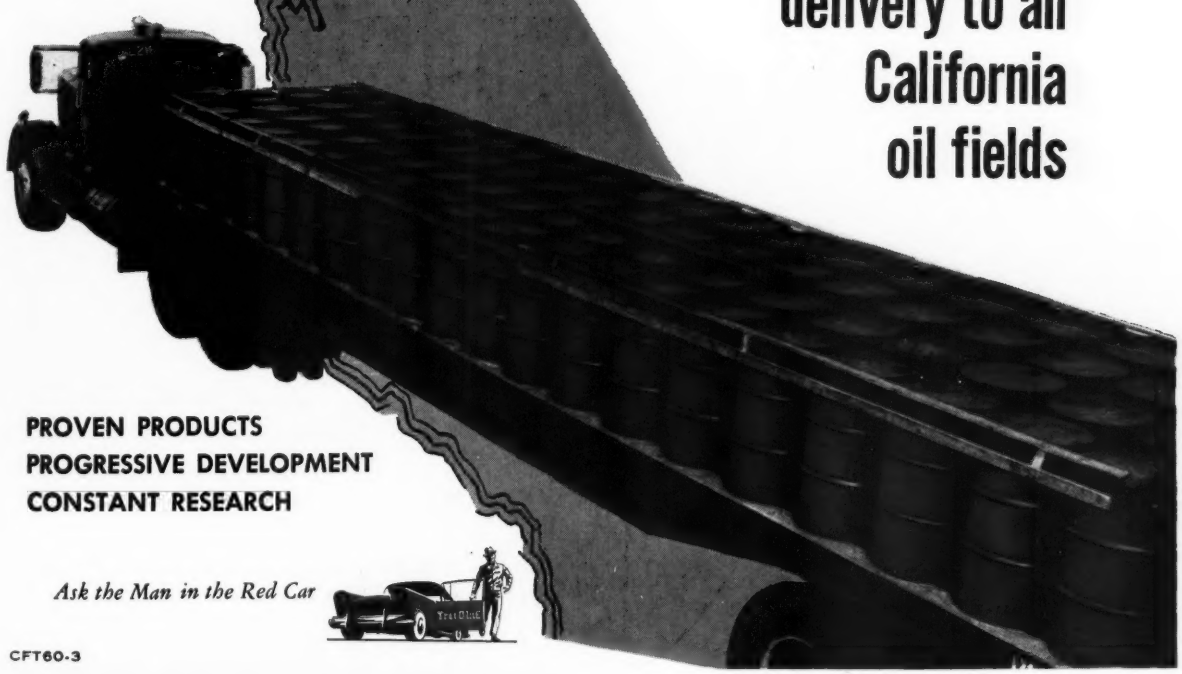

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LELA MONROE—Vice President • LARRY O. MILLER—Secretary and Advertising Manager
2404 WEST 7th STREET, LOS ANGELES 57, CALIFORNIA • DUnkirk 2-6218

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NEW YORK—JAY TUTHILL—501 FIFTH AVENUE, NEW YORK 17

AUDITED PAID CIRCULATION ABC

• FIRST ISSUE
AUGUST, 1960
VOL. 53 • NO. 15
WHOLE NO. 2045
August 15th, 1960

California Oil World is published twice a month at 2404 West 7th St., Los Angeles 57, California. Second-Class Postage Paid at Los Angeles, California. Subscription price $1 per year in U. S. and possessions, $2 in foreign countries including Canada.

Success in War Hinged on Oil

Many elements, tangible and intangible, enter into our military strength. One of them—and one of the most important—is oil.

Rear Admiral O. P. Lattu emphasized that in a recent speech. The oil requirements of the military are all but unbelievable. A single one of our jet bombers carries a fuel load equivalent to four railroad tank cars. The giant holds of our Forrestal-class aircraft carriers each contain more than 2,000,000 gallons of fuel oil, plus 1,000,000 gallons of aircraft fuel.

These tremendous petroleum consumption rates, said the Admiral, who is executive director of the Military Petroleum Supply Agency, "underline the fact that our chances of success or failure in any future war will hinge on oil."

Bigger and better military equipment of all kinds has sharply increased the need for oil. Yet, interestingly, the volume of the purchases has been rising faster than the money spent, due to favorable prices. Last year, for instance, the military was able to buy 11.2 per cent more product than in the previous year at an increase of only 1.7 per cent in dollars. That's good news for the taxpayers.

Signal Oil and Gas Moved Into Its New Building

Signal Oil and Gas Company's entire home office was moved into its new 16-story building July 30th, it was reported by Samuel B. Mosher, chairman of the board.

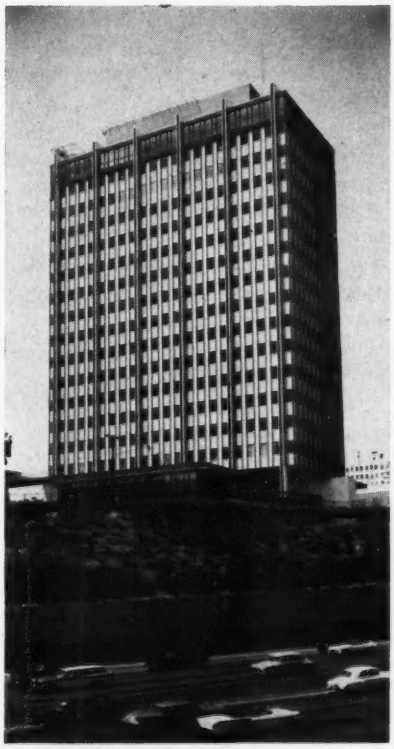
The Signal Building towers over downtown Los Angeles from an elevated site at 1010 Wilshire Boulevard, immediately west of the Harbor Freeway.

1,500,000 pounds of furniture and equipment were moved from the 11 floors in the Havenstrite Building at 7th and Flower Streets, where Signal has been headquartered since 1930.

In addition, equipment was moved from three other buildings in the area in which Signal has rented space.

Fifty Signal employees helped coordinate the round-the-clock transfer, which took a year of detailed planning.

Mosher said that although the 16th floor in the new building will not be completed until October, Signal's growing activities necessitated the move at this time. An official opening celebration will be held at a later date, the board chairman stated.



Signal Oil and Gas Company's new 16-story home office building, located in Los Angeles immediately west of the Harbor Freeway at Wilshire Blvd. and Beaudry St.

Automation & Remote Control Under Study by Mech. Eng.

Two papers to emphasize computer automation and remote control possibilities for power boilers will be sponsored by the Fuels Division, The American Society of Mechanical Engineers, at the National Power Conference scheduled for September 21-23 at the Bellevue-Stratford Hotel, Philadelphia.

The Fuels Division, a specialization group within the American Society of Mechanical Engineers which is devoted to the promotion of mechnical engineering all fuels which are used to produce heat or power by combustion, is announcing, through program co-ordinator Louis P. Copian, design engineer, Riley Stoker Corp. and reporting representative Richard I. Wheater, staff engineer, Steam Dept., Foster Wheeler Corp., the following program contributions:

"Automation — The Application of Computers to Automatic Boiler Operation" by George W. Kessler, chief engineer, The Babcock & Wilcox Co. Presentation of the paper will be by D. E. Heyburn, project engineer of the same company. The author discusses computer capacities and limitations, methods of application and required equipment alterations and additions. Paper will be the third presentation at session number four on Thursday morning, September 22.

"Experience With Remote Burner Control Systems" by Russ Forney, vice president, Forney Engineering Co., will cover some of the reasons why management and design engineers apply automatic burner controls to central power boilers together with some factors influencing the design of the equipment. The presentation will be the first paper during session number four on Thursday afternoon, September 22.

Inspection Company for Oil Industry Formed by Welex

Formation of a new oil industry inspection company was announced in Houston recently by Welex President, Ray O. Shaffer.

The new company, International Inspection, Inc. or Triple-Eye, specializes in ultrasonic inspection of oil field tubular goods and refinery and petrochemical plant piping and vessels for corrosion. Triple-Eye is a subsidiary of Welex, Inc., wireline service company with headquarters in Fort Worth, Texas. Welex is a subsidiary of Halliburton Company, Duncan, Oklahoma.

Triple-Eye recently purchased all ultrasonic patents, processes and other assets of Electro-Circuits, Inc., a former subsidiary of Automation Industries, Inc., Los Angeles.

Officers and directors of Triple-Eye are Ray O. Shaffer, chairman of the board; Walton J. Greer, vice chairman, Houston; J. Randolph Richards, president, Pasadena, California; H. K. McArthur, executive vice president, Fort Worth, and T. G. Bogle, vice president, sales and advertising, Fort Worth.

H. T. Jarmon of Fort Worth, is secretary-treasurer. Other directors are H. B. Hurley, Houston, and T. W. Painter, Fort Worth. C. R. Sumner of Fort Worth, formerly operations engineer with Welex, has joined Triple-Eye as operations manager.

The new company operates from three main offices: 1400 E. Berry St., Fort Worth; 1728 Old Spanish Trail, Houston, and 1840 E. Walnut, Pasadena, California.

Triple-Eye introduces to the oil industry the advanced inspection techniques originally developed for the missile and aircraft industries.

A demonstration of the new techniques was recently held for oil industry personnel at Humble Oil & Refining Company's Baytown, Texas refinery. One of the system's unique features — hot-line, on-stream inspection of refinery equipment — was demonstrated. This development permits continuous monitoring of corrosion rate without having to halt refinery operation for inspection.

The Triple-Eye system, which is also adaptable to on-location inspection of drill pipe and other oil field tubular goods, employs the basic principles of pulse-echo ultrasonics, or "silent sound" which detects flaws frequently overlooked by X-ray, electromagnetic and other commonly used inspection techniques.

Top executives of Triple-Eye (International Inspection, Inc.), a subsidiary of Welex, Inc. left to right: J. Randolph Richards, president (Pasadena, Calif.) and Ray O. Shaffer, chairman of the board (Ft. Worth, Tex.). Mr. Shaffer is also president of Welex, Inc.

A second important development which made Triple-Eye's ultrasonic inspection system possible is the patented Ultracoupler. Since ultrasound will not travel through air, water is used as a medium between the crystal transducer and the equipment being inspected.

These two developments, together with the Ultrachart which transforms ultrasonic impulses into a permanent inked log or chart, make possible a permanent record of:

1. wall thickness throughout the body of the tubular goods or other metallic equipment.

2. minute fatigue cracks, corrosion pitting, wear and hidden flaws.

3. condition of welds, tank bottoms, pressure vessels and other oil industry equipment.

Richfield Releases First 6 Months Report

Richfield Oil Corporation reports net income after all charges for the first six months of 1960 of $13,987,894, compared with $10,694,790 for the first six months of last year.

This is equivalent to $3.46 per share for the 1960 period, compared with $2.65 per share for the 1959 period based on average number of shares outstanding in the respective periods.

Two New Trustees at U.S.C.

Election of two new members to the board of trustees of the University of Southern California has been announced. They are:

Mrs. Frank R. Seaver, of Los Angeles, noted for her work with hospitals and charities and as the composer of sacred songs and ballads that have been sung by some of the world's greatest concert artists.

Henry Salvatori, of Bel-Air, chairman of the board of directors and founder of Western Geophysical Company of America and its foreign affiliates, a Los Angeles business man prominent in the petroleum industry for more than 30 years.

General Exploration Co. Of California Consolidates Domestic & Foreign Activities

General Exploration Co. of California, in a move to consolidate its foreign and domestic operations, has formed a wholly-owned subsidiary, General Exploration Co. of Delaware, which has acquired all of the assets of International Research & Exploration Corp., already a 50%-owned subsidiary, at a net cost of 43,330 shares of the California corporation's common stock.

In return, the company received a substantial amount of cash; one-half interest in certain leases in East Los Angeles which, together with the interest already owned, now totals 100%; one-half interest in General Exploration Co. of Australia, Limited, which holds exploration licenses on 3,000,000 acres in South Australia (the other 50% being owned by Santos Limited, an Australian company); all the stock of a Sudan subsidiary, which holds exploration licenses on 1,400,000 acres on the Red Sea coast of Sudan; and pending applications for exploration licenses covering 10,000,000 acres in the Union of Burma.

In South Australia, on a concession adjacent to the 3,000,000 acres held by General Exploration, the second Port Campbell test well is drilling below 5,000 feet. This well was located as a result of detailed seismograph work conducted in the vicinity of Port Campbell No. 1, after this first well encountered a flow of 4,000,000 cubic feet of petroliferous gas a day at 5,600 feet. General Exploration is now completing its program of government-subsidized geophysical work on the area held by it to the west of this test.

DU PONT *Petroleum Chemicals* NEWS

Number 103 in a series of bulletins for the Petroleum Industry

AUGUST 1960

Du Pont reports on the progress of linear programming

HERBERT O. BAILEY and JACK S. BELLAH, refinery technologists, discuss the programming of a customer's refinery operation.

The purpose of the Du Pont linear programming service is to help refiners look at *both* the forest and the trees – to analyze the economic effect of every processing and blending phase, and from this analysis obtain an over-all view of the economy of a particular refinery's operation.

In one instance, linear programming showed how a company was losing over $1 per barrel by diverting one component to a less profitable alternate use.

In another case, a company learned that it was buying a component at a price considerably above its actual value to them.

Du Pont has now expanded the scope and capabilities of its linear programming service. The past and the future of this service are explored in the statements on this page by Jack S. Bellah and Herbert O. Bailey, Du Pont refinery technologists.

Linear programming up to now by Jack S. Bellah

"In the past two years the many customers who have utilized our linear programming service have found it to be a useful adjunct to their over-all refinery operations and planning.

"On occasion, the analyses they received opened the door for changes which could effect appreciable economies. In other instances, results have verified that the *modus operandi* of the refiner was already at the optimum.

"Du Pont instituted this service with two purposes in mind:

"First, as a study of a customer's actual operations – to develop the over-all economic picture of his gasoline blending operations, putting all factors into their proper economic perspective when maximizing profit. From this, much information can be readily developed on the effect of varying elements of the system.

"Second, where the customer is interested in linear programming as a permanent tool in his own economic studies, a trial run by Du Pont can give him experience on which to base his own choice of programming system. In some cases, Du Pont has helped to train those persons who will make the actual studies, and has continued to suggest ways in which the studies can be broadened into more comprehensive and useful management tools."

The future for linear programming

by Herbert O. Bailey

"We expect to expand the Du Pont linear programming service by introducing more customers to it and by exchanging ideas, concepts and methods with those who have already started using it.

"One new approach is our use of the IBM 704 computer. The larger memory capacity of this machine helps us assist our customers in studying larger and more complex problems, including: maximizing the profit on numerous grades of gasoline; interseasonal storage of gasoline and heating oil components; complete refinery simulation from crude to finished products.

"On the 704 we can, within reasonable limits, incorporate in a single problem the combination of variables that determines:

a) Selection of crude slates.

b) Determination of reforming severity level and tetraethyl lead concentration for minimum cost research and motor octane numbers.

c) Choice of catalytic cracking plant feed stocks.

d) Disposition of butanes among motor gasoline, alkylation or polymerization plant feed stock.

e) Component and finished product production within process capacity limitations, and with all finished products meeting specifications.

f) Size of profitable marketing areas."

ADVERTISEMENT—Prepared for the Petroleum Chemicals Division of E. I. du Pont de Nemours & Company (Inc.)

OVER

DU PONT *Petroleum Chemicals* NEWS

ATTENTION MARKETERS:

New survey probing motorist buying habits soon to be released

Now in the final stages of compilation is the 1960 Du Pont survey, "Profile of the Motorist". This is the fourth in a series that constitutes the largest such study ever undertaken in the petroleum industry.

Coast-to-coast interviews (4,500) are shedding new light on old questions, such as: gasoline brand preference, loyalty to service stations, the effect of price wars on buying habits, regular-vs-premium grades, and non-petroleum purchases at service stations.

Other areas of particular interest include: the growing use of non-oil company credit cards, vacation use of automobiles, the effect of trading stamps and activities that compete with driving (such as home swimming pools, daytime television).

This study is another example of the marketing services available to Du Pont customers. Results will be available this fall.

Du Pont study shows fewer gasolines cause carburetor icing

Results are now available to marketers and refiners from the *Winter, 1960,* Du Pont Survey of Carburetor Icing.

30 regular grade gasolines, 30 premiums, and 4 super premiums were investigated. Samples were obtained from service stations in various marketing areas, with particular emphasis on regions where carburetor icing has been most prevalent.

Contrasted with results of the 1959 survey, it appears that there was a general decrease in the tendency of motor gasolines to cause carburetor icing:

47% of *regular* gasolines were satisfactory, compared with 35% in 1959.

63% of all *premium* gasolines were satisfactory, compared with 55% in 1959.

Full information on this study – including the comparison with last year – is available from your Petroleum Chemicals Division representative.

Western Regional Manager

E. HEARN SIMPSON, who recently assumed the duties of Western regional manager for Du Pont's Petroleum Chemicals Division, brings more than twenty-four years of petroleum experience to his new position. He succeeds the late Robert F. Harwick.

Mr. Simpson started with Du Pont in 1930 in the sales department of the "Fabrikoid" Division, Newburgh, N. Y., and two years later became a sales correspondent in the Alcohol Division of the Organic Chemicals Department in Wilmington, Del. In 1934 he became a salesman in the same division, where he was concerned with the sale of gasoline antioxidants, oil colors, and alcohol in the Middle West.

From 1943 until 1946 Mr. Simpson was a supply officer in the U. S. Navy. He returned to Du Pont in 1946 as sales manager of the alcohol and camphor section, Petroleum Chemicals Division, and a year later was named assistant sales manager of petroleum additives. In 1950 he was appointed manager in charge of industrial sales for the Petroleum Chemicals Division and the following year was named acting manager of the Eastern Region with headquarters in New York City. In 1952, Mr. Simpson returned to Wilmington as manager of sales of the Petroleum Chemicals Division, a post which has now been discontinued.

A native of Washington, D. C., Mr. Simpson attended public schools in Delaware, Oklahoma, and Colorado, and joined Du Pont following graduation from the University of Denver with a bachelor of science degree in 1930. He is a member of the American Petroleum Institute.

New Du Pont yellow dye is 20% stronger, more soluble

Now you can add yellow color to gasoline and other petroleum products more readily with Du Pont's new Oil Yellow NB. This new dye is 15% to 20% stronger than its predecessor, Oil Yellow N.

Use less dye. With Oil Yellow NB you use less dye to get the same results obtained up till now with Oil Yellow N.

Improved solubility. Another advantage of Oil Yellow NB is its greater solubility in petroleum products. Its approximate solubility, ascertained from test samples, is 4000 mg/100 ml in a test gasoline, compared to approximately 2000 mg/100 ml for Oil Yellow N.

Now available. Deliveries of Oil Yellow NB are now being made from our plant at Carneys Point, N. J., and from warehouses across the United States. The dye is shipped in standard 100-lb.-net packages.

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OVER

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First Annual Tube-O-Rama Trade Exhibition Held in L.A.

The latest unique developments in manufacture, fabrication and assembly of tubular products including aluminum, steel, alloy and exotic metals were introduced to over 2,000 industry representatives in Los Angeles recently at the first annual Tube-O-Rama trade exhibition.

Sponsored by Kilsby-Tubesupply, Tube-O-Rama was designed to meet the growing needs for an exchange of information on tubing between users and producers. R. Perry Kilsby, president, said that 61 exhibitors demonstrated new and unique techniques to design men, engineers, and production and purchasing personnel representing major producers as well as subcontractors and fabricators.

Exhibitors included major steel, alloy and aluminum tubing producers and a large variety of fabricators and consumers of tubular products.

According to Kilsby, another purpose of the Kilsby-Tubesupply Tube-O-Rama was to give large contractors the opportunity to acquire a better knowledge of the potentials of local subcontractors. At the same time, he said, subcontractors were given an opportunity to make contact with primary contractors. In addition, manufacturing and design personnel were introduced to a number of the latest and most unusual developments and technical improvements in the fields of alloys and exotic metals.

Based on the success of this initial showing, Kilsby-Tubesupply plans to continue Tube-O-Rama as an annual industry exhibition.

Inspecting new tubular products at Kilsby-Tubesupply Tube-O-Rama show are (left to right), R. Perry Kilsby, president, Kilsby-Tubesupply; A. H. Nelson, purchasing agent, Chiksan Company, and James Sigel, Eastman Kodak Company.

Gulf Oil Reports 6 Months' Earnings of $1,56 per Share

Estimated net earnings from operations of Gulf Oil Corporation and subsidiary companies consolidated for the first six months of 1960 were reported as approximately $156,096,000. This was an increase of 10 per cent over the corresponding six months' period in 1959 when net income totaled $141,-814,000.

More than half of the increase in first-half 1960 earnings occurred in the United States and the balance resulted principally from operations in the Eastern Hemisphere.

S.O. of Calif. Thru Oronite To Build Plant in Japan

Oronite Chemical Company and the Japanese firm, Nippon Petrochemicals, Ltd., will build Japan's first detergent polymer and alkylate plant in Kawasaki, near Tokyo, on the east coast of Japan.

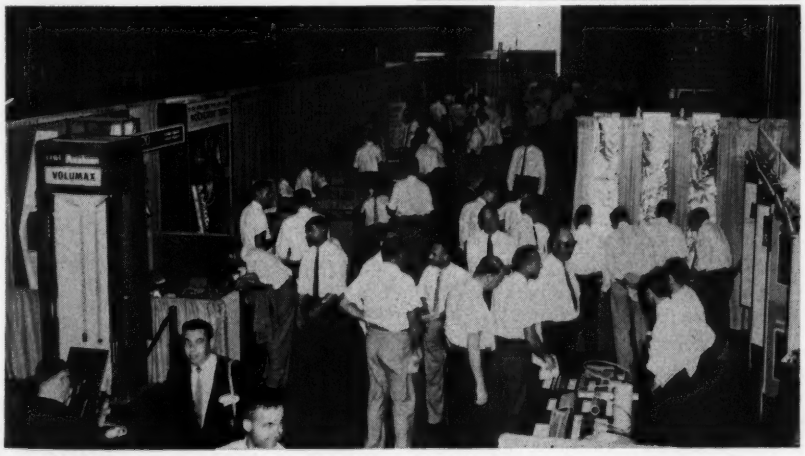
The multi-million dollar unit to be constructed near an ethylene plant operated by the Japanese firm is scheduled for completion by late '61.

A newly-created company, Nippon Petroleum Detergent Company, Ltd., will operate the plant using Oronite patent licenses and know-how. Oronite has a 45% interest in the new firm.

The alkylate produced will be of the same type as Oronite's Alkane "60," now manufactured at a newly completed plant in Richmond, Calif. Alkane "60" say Oronite officials, provides detergency and foaming properties superior to conventional dodecyl alkylates because of a greater molecular weight.

Production processes used will also be similar to those employed at the Richmond plant. The Richmond facility is designed to produce detergent polymer using a new process developed by Oronite's research affiliate, California Research Corporation. The polymer is then processed into alkylate and sold as a base material for detergents.

The decision to build the Japanese plant, report Oronite officials, is based on thorough market studies which disclosed a fast-rising demand for detergent alkylate in Japan.



Subcontractors and primary contractors discuss mutual needs and services at first annual Kilsby-Tubesupply Tube-O-Rama exhibition in Los Angeles. At the showing contractors, suppliers and fabricators of tubular products were given the opportunity to acquire a better knowledge of each other.

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Shell Oil Expands Styrene Facilities

Shell Chemical Company has announced that it is expanding its styrene production facilities at Torrance, Calif.

Styrene is a chemical intermediate used in making plastics and general purpose synthetic rubber.

J. P. Cunningham, general manager of the Torrance installation, said today that the current expansion program, scheduled for completion early in 1961, will raise the plant's capacity to 210 million pounds a year.

Shell has been in the styrene market since 1955, when it purchased the synthetic rubber plant at Torrance from the U. S. Government. The styrene facilities, which are part of the integrated operation, had a rated capacity of 125 million pounds a year in 1955. Completion of the new construction program will mark a total expansion of nearly 70 per cent since the plant has been in private operation.

Raw materials for styrene are benzene and propane, which are produced in large quantities in Southern California by Shell and other refiners that supply the Torrance plant.

Mobil Profits Mount

Socony Mobil Oil Company's estimated net earnings for the first six months of 1960 amounted to $83.4 million, 8.2 percent more than in the first half of 1959, Albert L. Nickerson, president, announced July 21, 1960.

The company also declared a quarterly dividend of 50 cents per share on the company's capital stock, payable September 10 to shareholders of record at the close of business August 1.

Union Oil Company And Changing Times

Union Oil Company of California is aggressively stepping up its program of increasing investments in petroleum and allied or complementary industries which will give it greater geographical and product diversification, it was announced recently by Reese H. Taylor, chairman and president.

"Recognizing changing conditions and the world-wide surplus of crude oil," said Taylor, "Union will shift much of its capital investment from exploration and development drilling to other phases of the petroleum business as well as to the chemicals and other energy industries related to Union Oil subsidiaries such as Collier Carbon and Chemical Corporation and its rapidly growing Global Marine Exploration Company."

Ken Corporation Appoints New Foreign Distributors

Earl Tavan, vice president Ken Corporation, Long Beach, announces the appointment of two new foreign distributors of Ken Corporation's oil base drilling and packing fluids.

Forafluid in Paris, France, will represent Ken Corporation in the French communities, in Spain, Greece, and other countries in the Mediterranean area including the French companies operating in Libya. It is managed by Gerard Landriot, who has many years of experience in the oil business as chief mud engineer for S. N. Repal in Algeria and as head of the drilling section of the French Bureau of Petroleum Research in Paris.

The other foreign distributor named is Macridge in Bierut, Lebanon. It will represent Ken Corporation in the Middle East, in Egypt and in Libya, except for the French operators there. C. B. "Connie" Ridgeway is manager of Macridge. He has had wide experience in the Persian Gulf and was formerly drilling superintendent for Arabian American Oil Company. Byron Greene, who was also with Aramco as chief drilling engineer, is associated with Mr. Ridgeway in Macridge.

M.J.M. & M. to Purchase Assets of Fortune

George N. Keyston, president of M. J. M & M. Co., reported that the company had received a permit from the Commissioner of Corporations to purchase all of the assets of Fortune Petroleum Corp. Fortune Petroleum has called a special meeting of the shareholders to approve the sale of the company's assets to M. J. M. & M. for 1,003,500 shares of M. J. M. & M. Oil Co. The exchange is on a share for share basis.

M. J. M. & M. Oil Co. last year acquired the control of Fortune, a small California producer with production of over 200 barrels per day in the Santa Maria area of California. Subject to approval of the sale by the shareholders of Fortune, M. J. M. & M. will take over all of Fortune's properties and assume Fortune's liabilities.

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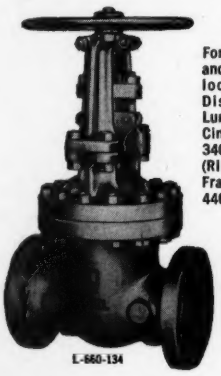

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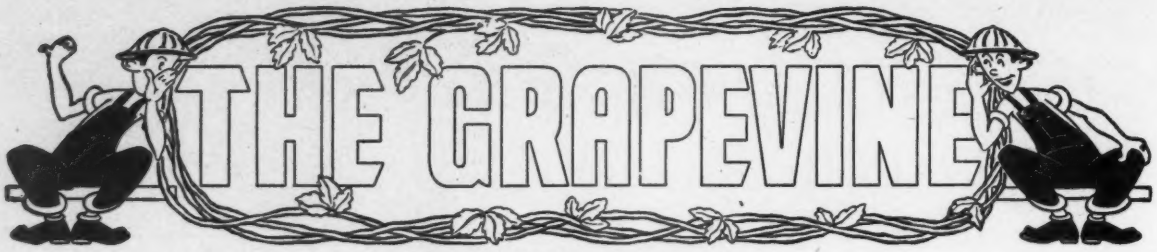

By RICHARD SNEDDON

Victim of Conspiracy

One recent noontime, all unsuspecting and thinking rather foolishly they were our friends, we entered into a three-handed gin rummy compact with E. R. "Stan" Stanley, the noted authority on subsidence, sets, and sequences, and Roland Norris, the eminent young Macconian who, we have reason to suspect, must be in charge of demolition for the McLeod enterprises. Up to this time, having just watched two political conventions, we thought we were thoroughly hep to all forms of collusion and conspiracy, but this pair of connivers subjected us to one of the most humiliating defeats in the course of a long and checkered career. It reminded us of the parable of the two wolves and the shorn lamb, if there is such a parable which we seriously doubt.

The Horrible Details

In any case, we used the Jacoby system, the Lens system, and even the Electric Railway system, in a determined effort to ward off total disaster but it was like trying to douse a volcanic eruption by covering it with a tea cosy. We wept softly, clutched our burning temples just as frustrated people do in novels, and wailed loudly in protest against our misfortunes but the boys went coldly and callously ahead, with their nefarious processes of extraction. Stan had a date, probably with a banker, for he left early, taking the entire Snedderhorn nest egg, plus next month's rent money, and there is little doubt that if he had had a beard he would have been chuckling in it.

From Bad to Worse

Hoping that we might make some slight recovery, enough perhaps to purchase bread for the children, we made a small loan from a nearby firm of usurers and spent the remainder of the lunch hour in a head to head joust with Roland Norris. Woe is us, the shellacking we got this time made the first one seem like a whipping with a feather boa. There has been nothing even remotely resembling this debacle since the Massacre of Glencoe! By the time it was over we were wondering why people should worry about such a trifling thing as the national debt. Meanwhile, we alternately whimpered and screamed, and protested angrily the blatant manner in which chance was favoring our opponent. Fearing a heart attack or something equally serious, we have now gone into seclusion and deep mourning. For some considerable time we shall not be seeing anyone excepting, of course, the field representative of the aforementioned firm of usurers who, incidentally, has been rather nasty about the whole affair.

Fundamentally Speaking

By the way, if what goes on here in the west is at all indicative of a national trend, gin rummy or "gouge penny" as it is sometimes known, is by far the most popular card game in the United States at the present time. It has been estimated that the average income of the better players, such as Don Grubbs, Glenn Pitts, and Tom Sherman, is about 3—a.m. There are many different types of gin player but in a respectable magazine like this, it is better not to attempt to describe them. One of the real authorities on the game is Dee Keaton who also swings a nasty niblick out at Annandale. Dee tells us that since the populace en masse took to this disconcerting species of grand larceny, the number of balanced bank books in California is dropping at the alarming rate of 12.73% per annum.

Memory Test

This is because the confirmed addict has a jaunty habit of dashing off a check to pay for his indiscretions. Although he can remember every card played by his opponent in a full evening of jousting, he can't remember to tell his wife about these checks. This needless to say, is why a wife nearly always refers to her husband as a gin rummy. The inventor of the game says that he really called it gin in honor of the well known beverage which is doubtless because it, too, tends to promote garrulity and a confused state of mind. Actually, gin rummy, Hollywood style, is just a more complex form of old fashioned rummy, lengthened into a course in higher accounting by the introduction of premiums, imposts, a triple-entry system, and an exchange of insults.

Book Keeping

It is in the scoring that the process goes berserk. Any time you see four men at a card table, three of them plainly visible, and one almost buried in a mound of crushed papers, you may be sure you are seeing a gin rummy game. The only person we know who can keep the record without giving an imitation of an overflowing wastepaper basket is Charlie Perkins. On the back of a postage stamp, Charlie can take care of the full accounting for a three across series and do it so expeditiously that before the last card has hit the table, he can tell you how much you owe him. His efficiency in this devastating art, indeed, is so well known that he has had two offers to act as a substitute for a malfunctioning pari mutuel machine. One was from a track in the Belgian Congo and the other was from good old Los Metos "Where the Turf Hardly Ever Meets the Surf!"

Word From South Pacific

Had a very interesting letter from Al Carrey a short time ago, date-lined Manila, where he is presently engaged as field superintendent in charge of drilling operations for Philippine Oil Development Company (PODCO). Al seems to be very happy with his assignment and is particularly pleased at the won-

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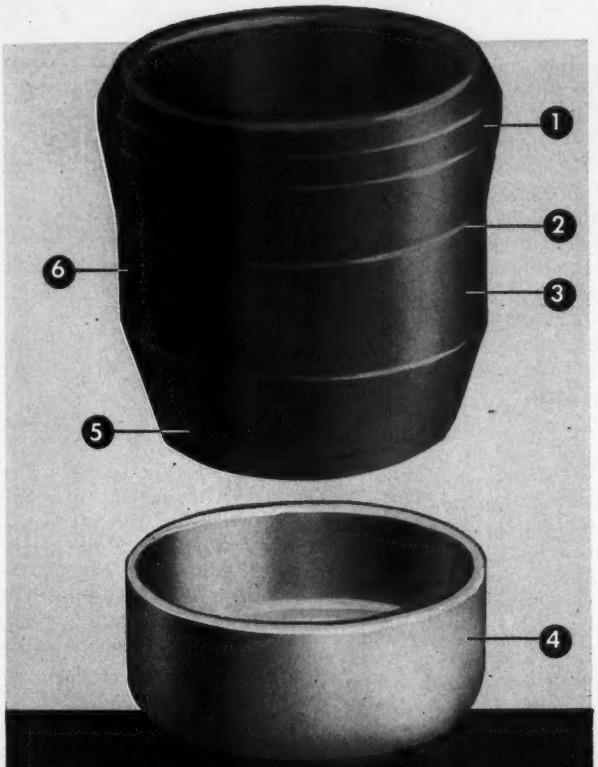

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derful relationship that exists between the people of the Philippines and Americans. This is a bond that was no doubt cemented during the war in the South Pacific when Filipinos and Americans fought side by side against what appeared to be insurmountable odds and finally came out on top. PODCO has drilled wells on the Islands of Leyte, Panay, and at the time of this writing was getting ready to drill at Bandoc Peninsula on Luzon. The location for this one was in an isolated area which could only be reached by native **banca** (boat), and they were laying a 3000 foot airstrip to ease and speed the operation. People are practically non-existent in the area, the only forms of life noted being monkeys, pigs, chickens, and a few deer. It was planned to transport equipment, including the drilling rig, by LCT boats, and having landed the stuff on the beach, to haul it about 7½ kilometers into the mountains. The well will be drilled using all native labor. It sounds a lot like our Canol experience about which we'll tell you some time if you'll be good boys and girls.

Expatriated Californians

Associated with Al as drilling foreman is Forrest Dahl, formerly of Kern Drilling Company, especially well known around the Signal Hill district. Such stateside personnel, indeed, as are employed by PODCO, that is, drillers and pushers, are recruited here by Ed Richards of the Kern Company at Long Beach. Al tells us that at the moment the main operational excitement centers on the Island of Cebu, near Toledo, where Redeco appears to have found some production. Drilling superintendent for this outfit is Orville Chase, also a Southern Californian of note. Other westerners now foraging about the Philippines are Dave Scott, once with Texaco here, and Dan Klemme, formerly of Hancock Oil Company. According to Al, President Eisenhower received a terrific ovation at Manila on his recent visit and, in fact, any American who goes down there is treated with a respect that is almost affection. This friendly attitude obviously makes life very pleasant and develops a mutual regard that is mighty nice all the way around. We have a son who had a pretty rugged experience down there in the second world war and never would have survived the ordeal without the help of a brave little band of Filipino guerillas, so he and we have a pretty soft spot in our hearts for all of them.

Venezuelan Enterprise

Have just received from Vantage Press of New York a 350 page, profusely illustrated and very interestingly composed opus, entitled "The First Big Oil Hunt in Venezuela, 1911-1916." This book is by our good friend, the distinguished geologist, Ralph Arnold, and his co-authors, T. W. "Tom" Barrington, and the late George Macready, all three of whom have spent most of their lives in California and are well known to the people of the derrick groves. Ralph Arnold is a tireless scientist whose technical writings are numberless. He has evaluated oil and mineral lands in all parts of the world, is an alumnus of Cal Tech and Stanford University from which latter he was graduated with a Ph.D. in 1902 and, indeed, has more degrees, honorary and regular, than a Fahrenheit thermometer. He helped in a very considerable way to elect Herbert Hoover President of the United States and gave Mr. Coolidge a boost, too, for which he was more than grateful.

Co-Authors

Tom Barrington is a native of Cambridge, Mass., who received his education at Harvard University where he was awarded a bachelor of science degree in 1910 and two years later was graduated with an M.E. He has worked in Chile, Alaska, and was in charge of Trinidad operations for General Asphalt Company when the Arnold survey took place, hence the co-authorship. Before his recent retirement he was a member of Standard of Cal's purchasing staff. George Macready was another graduate of Stanford ('06), in fact taught geology there for some time. He was the first man employed by Ralph Arnold in Trinidad and for a number of years afterwards was with Shell Oil Company. I remember meeting him some time before his death and I believe he was then regarded as, among other things, a leading authority on core orientation.

Among the Party Members

Getting back to the book, this is the story of a geological survey of Venezuela and Trinidad which was carried out under the direction of Dr. Arnold for General Asphalt Company between 1911 and 1916. When this was begun production of oil in Venezuela amounted to about 40 gallons a day. It is now approximately 2½ million barrels a day. The Arnold survey party consisted of 52 geologists, many of whom were from California. They made about as complete a survey as has ever been made of any such extensive area, and a number of them made contributions to the book. A few names of party members will be of interest to local oil men. Besides the three already mentioned, there were Harry Maddren, Floyd Merritt, Dan Knowland, Clarence J. Peterson, John Elliott, Arthur Henley, Franklin Prout, Harold Boyd, A. H. Garner, Byron Jackson, Barnabas Bryan, and Dell B. Arrell, by a strange coincidence nearly all Stanford men. Altogether this is an exciting account of pioneering in a strange and rigorous environment. Actually, it is a "popular science" sort of thing that should have a definite appeal not only to oilmen concerned with Venezuelan and Trinidadian production, but also to readers who just like a good adventure story.

Report on Jack Graves

We were pleased no end to have a cheery note from Jack Graves, the former Bethlehemite, who has been fighting his way back to health for the past 2½ years in a most courageous manner. From virtual helplessness, by sheer strength of will and the proper spirit, he has improved to the point where he can get about amazingly with crutches, can bathe and dress himself, drive his own car, do lots of household chores, and cook like nobody's business. Needless to say, he has found real stimulation in the help of his lovely lady, Norgy, who is admitting supervisor at Whittier Presbyterian Hospital, and his family, John and Diana. By the way, he sends his special regards to Phil Magruder, Joe Stephens, and Wally Mitchell, and would be more than happy to hear from any of his old friends, either by letter or phone. His address is 642 Ramona Drive, Whittier, phone OX 3-7205.

We Visit R.O.M.'s

Had a nice visit first Monday of August with Tom Selser and his Re-

tired Oil Men's Club over at the Biltmore. There were about 80 present and they had a wonderful time. Maury Machris and Dean Torrance showed pictures of Maury and Paquita's expedition into India. This was a real exciting film, featuring the tracking down of two man-eating tigers, and the accumulation of all sorts of unusual flora and fauna for the Los Angeles Museum. To the surprise of nobody at all, Maury also gave a plug to the Los Angeles Zoo. In this he was aided and abetted by Tom Selser who is now associated with him in the enterprise. It was fun to say hello to Bill Todd, Lin Little, Elmer Bolton, George Brainiger, Bill Cochems, Swede Larson, Alex Robertson, Ed Palmer, Roy McLaughlin, Steve Dunlap, M. E. Kinnebrew; B. Reinhold, Fred Weaver, Lewis Bauer, Roger Bramble, John Cody, John Templeton, Bill Quinn, Bob Plomert Sr., Dave Meek, Emil Kluth, Frank Davie, Sam Grinsfelder, Judge Saatjian, Hans Ross, Ben Parsons, Jud Hillman, Roscoe Kelley, Ray Brown, Veyne Mason, and so many more we can't remember half of them. By the way if you are a retired oil man and are feeling a mite lonely, this group meets at noon on the first Monday of every month at the Biltmore in one of the Conference Rooms, and it doesn't matter what phase of the oil business you belong in, they'd be right happy to have you just walk in and join them, or get in touch with Tom Selser at Normandy 4-8265.

PPP to Install Marker

Petroleum Production Pioneers have set up an interesting double event for Saturday, September 10, 1960 in the neighboring communities of Los Alamitos and Huntington Beach. The first item on the program is a marker ceremony that will commemorate the completion of the Huntington Beach discovery well, "Huntington A. No. 1" drilled by Standard of California in 1919. This will feature short addresses by civic dignitaries of Huntington Beach, Standard executives, and P.P.P. higher-ups. This part of the affair was arranged by Paul Andrews, historian of P.P.P. and is part of a continuing program to preserve and mark sites that are significant so far as the petroleum industry is concerned. The less serious portion of the gathering, the barbecue, will be staged at the Los Alamitos Race Course which the Frank Vessels, Sr. and Jr., have kindly loaned for the occasion. Here Hugh Gribbin and his happy band will preside over the cocktail hour. A noted chef will cook the steaks; Floyd Vaughn will see that everyone gets a fair share, and Ed Cleveland will be in charge as usual of identification and classification. According to Pick McIver, ruling prexy of the Pioneer Group, this is likely to be one of the larger gatherings, so better get your bid in for tickets now before they are all gobbled up. Bus transportation from Bakersfield, Taft, and Los Angeles, is in charge of Sam Kelly, Al Bailey, and Andy Anderson, respectively. Venturans, by arrangement with Sam, can be picked up on Highway 99 at Tips by the Bakersfield bus.

Bits of This and That

Now, skipping hither and yon, we note that Signal Oil & Gas Company is now in its ritzy new building at 1010 Wilshire Blvd. New telephone number Huntley 2-0722, new mailing address, P. O. Box 17126, Los Angeles 17, California. Had the pleasure of meeting Ray McGranahan, the new president of Wilshire at a California Club luncheon recently, and was very favorably impressed. Will tell you more about this gentleman later. Was also pleased at the same affair to have a chat with ex-president, Ed Cooperman, one of our former Union Oil Co. associates, and real nice people. Neal Thompson is just back from a trip to Venezuela, Colombia, and Mexico. By the way, we are indebted to Neal's lovely lady, Ruth, for the data on which we based the Arnold book review. Western Geophysical Company has moved to its new building at 933 North La Brea Avenue. Ernie Heyns announces the organization of OILCO, consultants, brokers, and sales experts, in crude and refined products, with offices at 140 North Robertson Blvd., Beverly Hills. Continental Oil Company has moved its Los Angeles Division exploration office to 2836 West 8th Street. Regional exploration offices continue at the old address, 1137 Wilshire Blvd.

More of the Same

Tony Alcorn writes from Ankara where he and Mrs. Alcorn are enjoying a short vacation, after which they will return to Paris. Tony says he ran into Bob Gentry at Paris but they didn't play any gin. Sends his love to Bob Eiche and all his pipeline friends! A note from Bo Weill

on the Stanford campus where for the past six weeks he has been undergoing an intensive indoctrination on Social Psychology, so that he can design even more screwball Christmas cards. Tells us he is so stuffed with facts it will take him years to get back to anything approaching normalcy. Superior Oil Co. has established its western division headquarters in the Tower Building in Denver with Jack Isberg in charge. Jack Mills has resigned from Sunray and will be active from now on in the oil and gas division of Citizens National Bank. The Glen Ledinghams are here on furlough from London, England. They traded homes with the Pete Gardetts who are now sashaying about Picadilly and Rotten Row while Glen and his brood are touring the local domino circuit. Congratulations to Eric Lemke, recently placed in charge of oil field tubular goods sales for Keenan Pipe! Eric is a modest but competent and altogether nice person for whom we would vote any time. Which is all for now. Cheerio!

Union Oil Earnings Substantially Higher

Union Oil Company of California earnings for the second quarter of this year were 33% higher than for the corresponding period a year ago, it was reported by Reese H. Taylor, chairman of the board and president.

Second quarter earnings this year were $7,839,904, or $.92 per share, compared with $5,881,332, or $.69 per share last year.

During the first six months of this year Union earned $13,369,763, or $1.57 per share, compared with $10,771,823, or $1.26 per share, earned in the first half of 1959. This is an increase of 24%.

"Because of better earnings so far this year and the expectation of continued improvement," Taylor pointed out, "the board on June 27 declared a cash dividend of 50 cents a share payable August 10. Since August, 1958 quarterly dividends of 25c per share have been paid."

Taylor reported that "Union's natural gas sales continue to rise and offer the most promising source of increased earnings in the immediate future."

In south Louisiana, where further development drilling is continuing "gas sales are expected to increase 40%, reach 350 million cubic feet a day by the end of the year and add $7 million a year to Union's revenues."

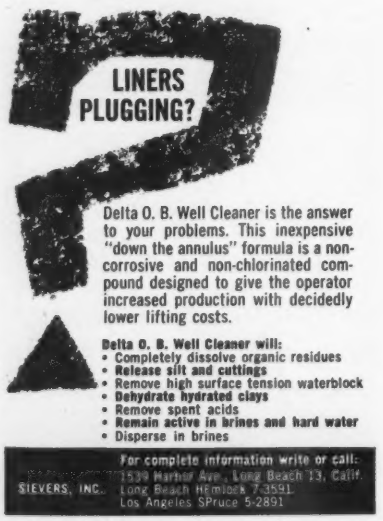
Union's crude oil production increased 4% over the previous comparable six-months period. Most of the increase was in California as severe government curtailment continued elsewhere. Development drilling in Los Angeles and Orange counties brought in 20 producing wells, yielding 6,000 barrels a day.

Jorgensen Takes On New Distributorship

Earle M. Jorgensen Co. has been appointed distributor and sales agent for Ulbrich Stainless Steels Inc., producer of extremely thin and narrow strip in stainless steel and super alloys. All Jorgensen service centers and sales offices will handle inquiries and orders for such material, and prompt shipment is offered, even on small quantities.

Ulbrich Strip is rolled on precision Sendzimir mills to gauges as light as .0008" and widths as narrow as 1/32". Besides the AISI types of stainless steels, Ulbrich specializes in super alloys, such as PH 15-7 Mo, 17-7 PH, AM 350, 19-9 DL, A 286, René 41, Inconel, Hastelloy, and many others. Users of this type of material include aircraft and missile makers, stamping companies, and manufacturers of gaskets, washers, springs, valves, and instruments.

Jorgensen Steel and Aluminum service centers are located in California, Arizona, Washington, Colorado, Texas, Oklahoma, Kansas and Hawaii.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S.O. of Calif. Plans Large Fertilizer Plant

Plans for the construction of what will be one of the nation's largest chemical fertilizer plants were announced in San Francisco by H. J. Grady, president of the California Spray-Chemical Corporation.

Calspray is a subsidiary of California Chemical Company, which in turn is a wholly-owned subsidiary of Standard Oil Company of California.

The $22 million plant food facility will be built in the heart of the Midwestern farm belt at Fort Madison, Iowa. It will be capable of producing more than 1000 tons daily of a wide variety of chemical fertilizers. The new installation will primarily serve the expanding requirements of the North Central markets.

Calspray is one of the world's largest suppliers of fertilizers, insecticides and fungicides.

Collier Carbon Raises Price of Ammonia

In a deliberate effort to establish a more "realistic" price for anhydrous ammonia in California, Collier Carbon and Chemical Corporation of Los Angeles, announced this month that effective October 1, 1960, its posted price will be $92 per ton, f.o.b. plant.

According to the company, the current California price of $66 per ton does not provide an adequate margin for the ammonia producer to obtain a fair return on investment, let alone provide for the increasing demands made on the producer to develop new and improved products, to maintain adequate seasonal inventories, and to furnish financial aid and technical service to the farmer.

Collier emphasized that, while its new price is based on a reasonable return on investment, the company will continue to meet any competitive prices in its marketing area.

Everyone benefits in the long run, Collier concluded, from fair profit margins—the farmer, the dealer, and the producer; whereas, inadequate margins threaten the stability and progress on which the nation's economic growth depends.

In announcing its new price schedule, Collier has also established, at buyer's option, zoned delivered prices of $98 in California and $100 in Arizona, Nevada and Oregon.

The all-electric oil rig goes to sea

Two miles off the California coast, near Santa Barbara, a man-made platform known as "Hazel" stands in 100 feet of ocean. On it, crews drill for oil. Their equipment is all-electric.

This is the Summerland oil rig developed by Standard Oil Company of California and Humble Oil and Refining Company. It was designed to drill up to twenty-five wells from the same site, two at a time. It is powered from shore by a two-mile 16 kv underwater cable.

Economical and dependable power

Electricity was selected to power this rig for two reasons. First, economy. Maintenance is handled by only one man working only three hours a week. And there is no need to haul fuel from shore—no expensive storage tanks to build in the ocean.

Second, dependability. Fewer moving parts reduce the chance of breakdown and require less maintenance. Equipment operates around the clock.

The Summerland rig is an outstanding example of the advantages of electric oil well equipment. Whatever, or wherever, your power problems may be, find how easily they can be solved by inexpensive, dependable electricity. Just call your local Edison office. One of our power consultants will be glad to review the details with you.

SOUTHERN CALIFORNIA Edison COMPANY

Personalities IN THE NEWS

Joe W. Perry E. J. McLaughlin

Perry Joins Pauley

Joe W. Perry, marketing director for Pauley Petroleum Inc., has been named executive vice-president of the newly formed subsidiary, Pauley Stations, Inc., to take charge of company plans to market petroleum products under the Pauley name.

Perry was formerly marketing manager for Tidewater Oil in the New York district, and since 1957 with Hancock as sales manager.

Oronite Chemical Names E. J. McLaughlin Sales Manager

Oronite Chemical Company, San Francisco, has named **Edward J. McLaughlin** manager, sales and product development for the company's recently created Petroleum Chemicals Division.

In his new post McLaughlin will supervise marketing, technical service and development for all the division's products which include lubricating oil additives, high temperature hydraulic fluids, butadiene and catalysts.

McLaughlin has been associated with Oronite's parent firm, the Standard Oil Company of California, and its research affiliate, California Research Corporation, for the past twenty-five years. His work has consisted of research, development, and technical service on engine fuels and lubricants. Five years ago he was named supervisor of the Engine Lubricants Section at the California Research Corporation laboratories in Richmond, California.

In his new position, McLaughlin will be headquartered at Oronite's home offices in San Francisco.

Warren Johnson Succeeds L. V. Cassaday at Lomita

L. V. Cassaday, president of the Lomita Gasoline Company, has retired after 36 years of service with the firm. Lomita, which operates two natural gasoline plants in the Long Beach area, is a subsidiary of the Standard Oil Company of California.

Cassaday, a native of Utah, joined Lomita in 1924 as a clerk, but in less than a year was named Assistant Superintendent. He subsequently served as General Superintendent, General Manager and in 1952 was named President of the firm.

An active participant in industry and community affairs, Cassaday is a past president of the California Natural Gasoline Association and is presently a director of the Long Beach Rotary Club. He is also a former president of the Virginia Country Club.

Cassaday is succeeded as president of Lomita by **Warren C. Johnson. M. S. Hubbell** has been named Vice-President and Manager of the company.

Honolulu Oil Announces Promotions

H. M. Van Clief, vice president—western division of Honolulu Oil Corporation, has announced the following promotions of employees in the Company's Western Division:

R. M. Dewar has been promoted to manager, field operations.

H. F. Pohlmann has been promoted to assistant manager, field operations, development and production.

John Boreta has been promoted to western division petroleum engineer.

C. F. Meacham, assistant manager, field operations, construction and services, continues in that capacity.

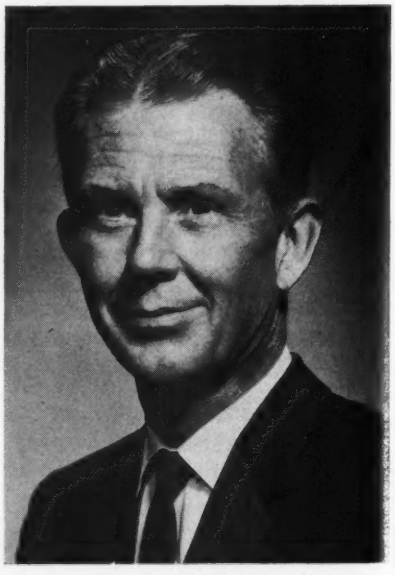
Tutschulte Moved Up By Tidewater

A. C. Tutschulte of Tidewater Oil Company has been named assistant district manager of the Flying A firm's coastal production district with headquarters in Ventura, it was announced recently by **F. W. Hertel,** western division production manager.

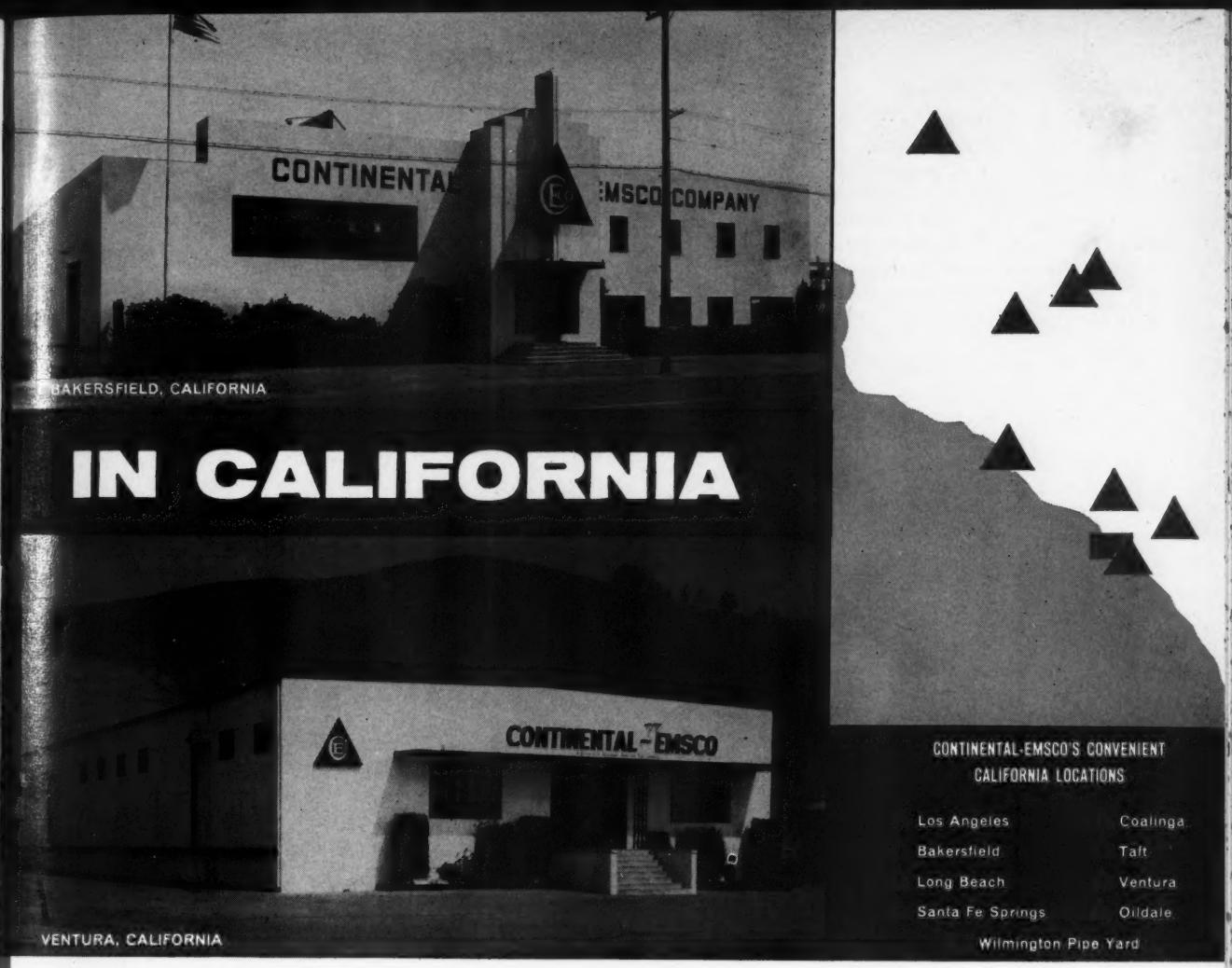
Tutschulte had been executive assistant to Tidewater's home office production manager.

He started with the Flying A petroleum firm in 1936 as office production engineer in Los Angeles. A year later he became production engineer in the Los Angeles Basin, and in 1941 was made district production engineer at the same location.

Selected as reservoir engineer in 1953, Tutschulte moved to the division office in 1954 as chief production and reservoir engineer. He was named division petroleum engineer in 1958, and in 1959 was transferred to Tidewater's home office in his most recent post as executive assistant to the production manager.



A. C. Tutschulte



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Lyndon Harman Promoted

Lyndon P. Harman, sales manager for Well Completions, Inc., Denver, Colorado has been promoted to vice president of the air and gas drilling engineering firm. While continuing to act as sales manager, he will assume additional management responsibilities, according to **Gordon Jackson,** Well Completions' president.

Prior to joining Well Completions, Inc. in July 1958, Harman had been division sales manager of the Rocky Mountain-Mid-Continent Division of Eastman Oil Well Survey, headquartering in Denver.

S. O. of Calif. Promotes Lee P. Morris

Appointment of **Lee P. Morris** as assistant manager of its Hawaiian refinery has been announced by Standard Oil Company of California, Western Operations, Inc. Morris will go to Hawaii from Grand Junction, Colorado, where he has spent four years as refinery manager for the American Gilsonite Company, a Standard affiliate.

A native of California and 1934 graduate of the California Institute of Technology, Morris joined Standard following graduation and has filled numerous manufacturing posts with the company in El Segundo, San Francisco and Vancouver, British Columbia.

Lee P. Morris

Congratulations B. H. Robinson

B. H. Robinson marks 35 years of service with Mobil Oil Company this month. Robinson is operations superintendent of the Los Angeles exploration and producing division of Mobil Oil Company.

Prior to the merger of General Petroleum Corporation with Mobil Oil on January 1, Robinson was manager of field operations. He joined the company as a timekeeper in 1925 in the accounting department at Vernon. Robinson held such positions in the production department as general superintendent, assistant manager and manager.

He is a former national chairman of the American Petroleum Institute production and drilling committees and formerly chairman of the Pacific Coast District of the API. He is also a registered petroleum engineer in the state of California.

He attended the University of New Mexico and the U. S. Naval Academy.

Olen Lane Announces Promotion of G. C. Sawvel

G. C. Sawvel, Oklahoma City, has been promoted to regional engineer for Continental Oil Company's western region, it was announced recently by **Olen Lane,** vice president.

Formerly district production superintendent at Oklahoma City, he will make his new headquarters at Los Angeles and will succeed **L. P. Brown,** who recently transferred to Conoco's headquarters production engineering staff at Houston, Texas.

Sawvel joined Conoco in 1949 and served in key engineering positions in Kansas and at Houston before becoming senior production engineer at Houston in 1955 and division engineer at Oklahoma City two years later. He has been district production superintendent at Oklahoma City since 1958, and is a native of Pittsburgh, Pa.

Axelson Appoints Quinn California Area District Manager

Robert E. Quinn has been appointed district manager of the Axelson Hydraulic Department, California Area. Quinn will be located at the company plant in Los Angeles.

Prior to his appointment, he was the service manager for Axelson Division of U. S. Industries, Inc.

J. D. Stetson Coleman

J. D. Stetson Coleman Elected To UOP Board of Directors

J. D. Stetson Coleman has been elected a director of Universal Oil Products Company, **David W. Harris,** board chairman, announced.

Coleman replaces **Carl S. Miner,** who resigned. Miner has been appointed an honorary director of UOP.

Coleman, whose home is in Lakeland, Fla., is chairman of the board of Cities Transit, Inc., Lakeland; board chairman of Coleman Meadows Pate Drug Co.; chairman of the finance committee of Fannie May Candy Shops, Inc., and a director of Zapata Oil Co.

Other members of the UOP board in addition to Mr. Harris and Mr. Coleman are **James M. Barker, Gen. Levin H. Campbell Jr., Bernard L. Majewski, Bert R. Prall, Kenneth H. Rockey, A. Nye Van Vleck** and UOP President **M. P. Venema.**

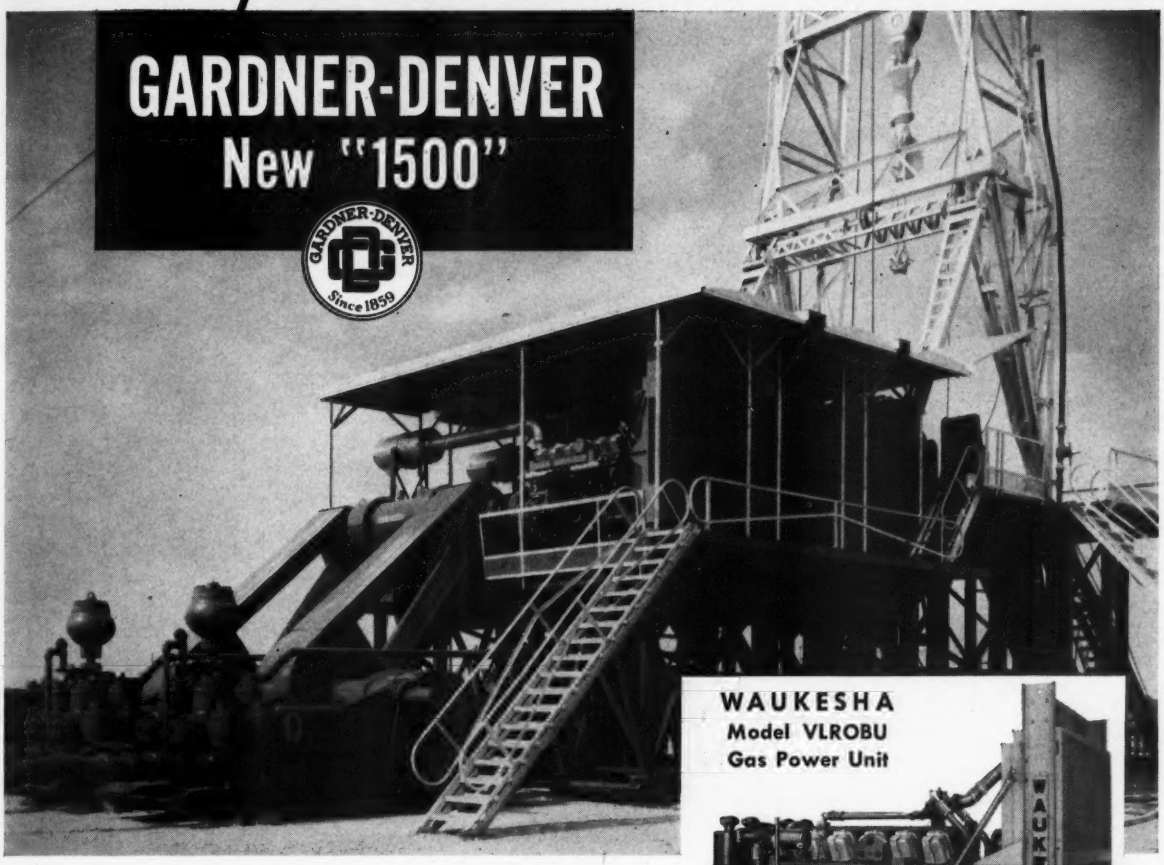
UOP Names Four to New Research Posts

Universal Oil Products Company has appointed four scientists to new posts in two of the company's major areas of research.

Dr. Herman S. Bloch has been appointed associate director of process research. **James Hoekstra** and **Dr. Ernest L. Pollitzer** have been named research coordinators, process research.

Dr. William L. Cox has been made research coordinator, products research.

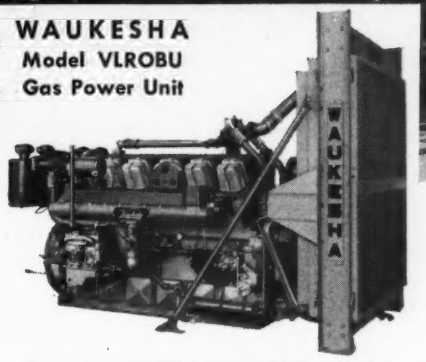
three WAUKESHAS power



B. L. McFarland Drilling Co., of Midland, Texas, first to drill with new "1500" Gardner-Denver rig.

With its drawworks rated 1500 input hp, this new Gardner-Denver "1500" rig is fast, economical and efficient for drilling to 20,000-ft. with 4½-in. O.D. drill pipe. A total of 8 forward and 2 reverse speeds to the drum; 4 forward and 2 reverse speeds to the rotary table can be obtained. Compounds and drive arrangements for this drawworks are limited only by customer requirements. The McFarland rig shown includes a 142-ft. 1-million lb. capacity drilling mast, one Gardner-Denver RT-27½ rotary table, and two Gardner-Denver GR-GXR mud pumps. Powering the rig are three Waukesha Model VLROBU Waukesha Gas Power Units with tremendously powerful, rugged 12-cylinder 5788 cu. in. engines, each developing 700 continuous duty hp, well known for their long-life dependability and economy in oil field service.

WAUKESHA
Model VLROBU
Gas Power Unit



Big powerful 12-cylinder high compression, overhead valve, 60-degree vee, four-cycle engine of 8½-in. bore and stroke, 5788 cu. in. displacement. Connecting rods are paired; opposing pistons operating from a single wide area 5¾-in. dia. crankpin; 7-bearing 6¼-in. dia. crankshaft. Send for Bulletin 1656.

Waukesha Engines and Power Units to 1235 hp. Turbocharged and Normal Diesels, Natural Gas, LPG. Get Bulletin 1079.

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Hightower to Speak To D & D of Long Beach

Earl Hightower, attorney, will speak on "The F.B.I.'s Role in the Petroleum Industry" and "Our Problem—Communism," when the Long Beach Desk and Derrick Club hold its regular monthly dinner meeting, August 17, at the Lakewood Country Club.

In addition to telling of the important role the F.B.I. plays in protecting the petroleum industry, Hightower will also cover the importance of oil to our Federal economy and give a brief background on the F.B.I. as well as the F.B.I.'s contribution of personnel to business and industry.

Mr. Hightower is well qualified to speak on this subject, as he spent three years with the F.B.I. and fifteen years in the practice of law as an oil and gas attorney.

Because this promises to be not only an interesting meeting but an educational one as well, President Marian Ramsaur has declared this an open meeting which means guests (male and female) from outside the industry may attend.

Lord Succeeds Moss as Transportation Director Of A.P.I.

Retirement of James E. Moss as director of the Division of Transportation of the American Petroleum Institute, effective August 1, and appointment of B. H. Lord, Jr., as his successor was announced by President Frank M. Porter.

Moss has headed the division since it was organized on Jan. 1, 1946. Under his direction, it has become the focal point for all committee effort relating to the movement of petroleum by railroad, highway, pipe line, tanker and barge. Radio communications was added to the division's responsibilities in 1947.

Moss will continue to serve the petroleum industry as a special consultant on President Porter's staff.

Lord, who joined the API staff in 1946, has been the division's associate director during the last year. He is a graduate of the University of the South, Sewanee, Tenn., and the National Law School, Washington, D. C., where he received a Doctor of Jurisprudence degree in 1939. He is a native of Wrightsville, Ga.

API Rocky Mountain District Announces 1961 Meeting

The 1961 Rocky Mountain District Meeting is scheduled to be held May 3-5 in the Gladstone, Henning and Townsend Hotels, Casper, Wyoming.

Reservations will be handled on a first-come-first-served basis. Requests should be addressed direct to the hotel of your choice as early as possible.

Program suggestions for the meeting will be welcome and should be addressed to the program chairman for the meeting, D. H. Falkingham, Pan American Petroleum Corporation, P. O. Box 40, Casper, Wyoming.

Oil Refinery Corrosion Topic at NACE Meeting

Corrosion in the petroleum refining industry will be the subject of papers and committee meetings at regional conferences of National Association of Corrosion Engineers this Fall.

Technical papers will be given at the Western Region Conference, San Francisco, during the Petroleum Processing symposium, Oct. 6, 2 to 5 p.m. One paper deals with experimental results of investigating corrosion by sulfur dioxide in flue gas. Another concerns stress rupture failure of 9 per cent chromium heater tubing after excessive firing and coke build-up. Problems involved in obtaining reliable corrosion data from pilot testing programs is the subject of a third paper.

San Joaquin Valley Section of NACE will hold its second corrosion tour Oct. 12-13. Objective of the tour is the study of corrosion problems and control in petroleum production and refining, the utilities and agricultural industries. Bakersfield Inn at Bakersfield, Cal., will be tour headquarters.

Also of secondary interest to pipe line men will be gatherings at the Western Region conference, San Francisco, Oct. 6-7. Two symposia will be held, one on coatings, linings and plastics and one on underground structures. A paper on Continuous Recording of Pipe-to-Soil Potentials vs. Distance has been scheduled.

ASME Calendar Of Coming Events

September 7-9—Joint Automatic Control Conference (with Instrument Society of America, American Institute of Electrical Engineers, American Institute of Chemical Engineers and Institute of Radio Engineers), Boston, Mass. Massachusetts Institute of Technology.

September 18-21—Petroleum Mechanical Engineering Conference, New Orleans, La., Jung Hotel.

September 21-23—Power Conference (with the American Institute of Electrical Engineers), Philadelphia, Pa., Bellevue-Stratford Hotel.

October 9-12—Rubber and Plastics Conference, Erie, Pa., Hotel Lawrence.

October 17-19—Lubrication Conference (with American Society of Lubricating Engineers), Boston, Mass., Statler Hilton Hotel.

October 24-25—Fuels Conference (with American Institute of Mining, Metallurgical and Petroleum Engineers) Charleston, West Va., Daniel Boone Hotel.

November 27-December 2—Winter Annual Meeting, New York, Statler Hilton Hotel.

Further information on the programs for any of the 1960 scheduled meetings may be obtained from L. S. Dennegar, Director of Public Relations, The American Society of Mechanical Engineers, 29 West 39th Street, New York 18, N. Y.

Pacific Coast District API 1961 Meeting in Los Angeles

The 1961 Pacific Coast District meeting is scheduled to be held May 11-12 at the Biltmore Hotel, Los Angeles.

Reservations will be handled on a first-come-first-served basis. Requests should be addressed to the hotel direct as early as possible.

Program suggestions for the meeting will be welcome and should be addressed either to Floyd E. Schoonover, Monterey Oil Co., 550 S. Flower St., Los Angeles 17, chairman, API Pacific Coast District, or to J. B. Hundley, Jr., Richfield Oil Corporation, 555 So. Flower St., Los Angeles 17, general chairman for the meeting.

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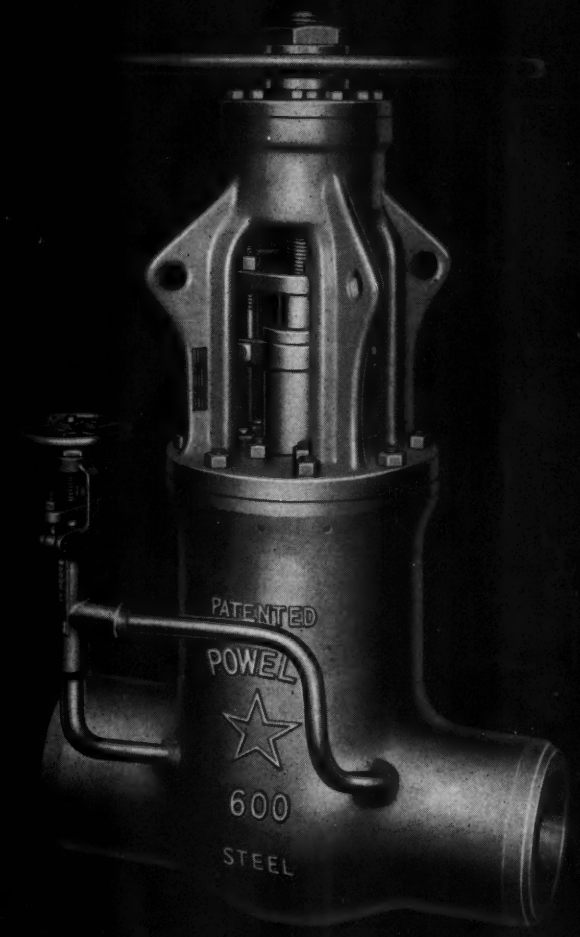

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I.P.A.A. Recommends "Continued Restraint"

The Independent Petroleum Association of America today called for "continued restraint" on the part of U. S. petroleum refiners during the remainder of the third quarter.

In its monthly Supply and Demand Outlook the national oil organization recognized that much progress had been made in correcting excessive refined product inventories during the second quarter. "However," the association pointed out, that at the end of June "total inventories were about 14 million barrels higher than the adequate stock levels forecast by the IPAA Supply and Demand Committee" last April.

The association said total petroleum inventories at the end of June were estimated at 776 million barrels, or 41 million barrels less than the excessive volume in storage on June 30, 1959.

In cautioning the industry, the IPAA stated that refinery runs during the last two weeks of June averaged 8,260,000 barrels daily as compared to an IPAA forecast of 7,800,000 barrels daily as an adequate level for the third quarter.

"Continuation of runs at this level through October could offset much of the improvement in refined product inventories which was accomplished in the second quarter," the association stated.

The IPAA said crude oil stocks at the end of June were about 18 million barrels below year-ago levels and slighty lower than the level forecast by the association. However, refined product inventories, although 23 million barrels below the comparable year-ago level, were still 16 million barrels higher than previously forecast.

The Outlook stated that the total demand for petroleum, including domestic consumption and exports, for the next three months, August through October, is expected to average 9,400,000 barrels daily, an increase of 400,000 barrels daily or 4.4 per cent above the same period last year. This compares with a total demand averaging 9,250,000 during the second quarter which was 233,000 barrels daily, or 2.6 per cent above the second quarter of 1959.

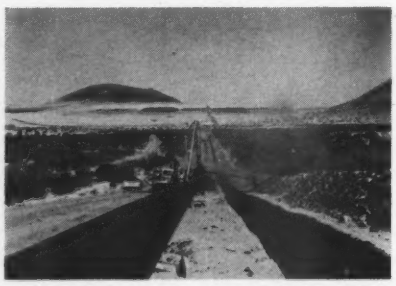
To meet the expected demand and still maintain total inventories approximately in line with the IPAA forecast, the association stated the total new supply required of crude oil, natural gas liquids and imports during the next three months would be about 9,450,000 barrels daily. "This would represent an increase of about 150,000 barrels daily over both the July supply level and the same three months last year," the IPAA said.

Western Oil & Gas Makes New Appointments

Western Oil and Gas Association has set up a Public Information Department which is charged with coordinating all public relations activities of the association. H. P. "Hal" Shawlee has been named manager of the new department. Shawlee has been a member of the association's staff for the past five years and formerly headed the oil information committee activity on the West Coast.

Feel free to call Shawlee for information on the association's activities. His home telephone is HOllywood 7-6455. As always, the association's assistant general manager, Harry Morrison, is also available to discuss WOGA operations. His home telephone is GRanite 2-7073.

Two public information representatives have been assigned to work under Shawlee's direction — R. W. "Dick" Keusink (home telephone — EXmont 8-2593) and Forrest R. Mulvane (home telephone HOllywood 7-2441). These men will continue to be available to you for assistance in any way possible.



NEW DESERT PIPELINE ALMOST TOO HOT TO COAT—Transwestern Pipeline Company's 30-in. gas mainline stretching out from El Paso, Tex. to California's "hell-with-the-lid-off" area at Needles is one of the hottest things to come out of Texas in a long time. Pipeline temperatures in a 25-mile area adjacent to relay compressor stations will hit 125° F. Koppers Company, which is supplying a protective overcoat for the entire installation, will use a coal-tar base enamel coating Bitumastic Hi-Melt Enamel over a 70-B primer coat along the 25-mile "hot" sections of the line. Normal mainline specifications call for a Bitumastic #2 coal-tar enamel coating reinforced with glass-wrap plus a Kraft paper cover. The new pipeline runs a thousand miles from El Paso, Tex., to Needles, where it joins with Pacific Gas Company lines in the middle of the Colorado River. At El Paso it joins with lines from the Puckett Gas Field, Houston, Tex.

Tidewater Appoints Pipeline Manager

Allan L. Piper of Tidewater Oil Company has been appointed manager of pipelines in the western division of the Flying A petroleum firm, it was announced recently by **W. W. Mitchell,** division transportation manager.

In assuming his new post, Piper moves to Los Angeles from Tidewater's eastern division in New York where he was in charge of transportation activities.

He started with the Flying A company in 1937 as a mechanic's helper at Coalinga. He later served as assistant field foreman, field engineer and office engineer, and in 1941 was named district pipeline supervisor at Ventura.

Appointed western division transportation office engineer in 1944, he subsequently became assistant to the division transportation manager, and last year was transferred to the eastern division as assistant manager and then manager of the transportation department.

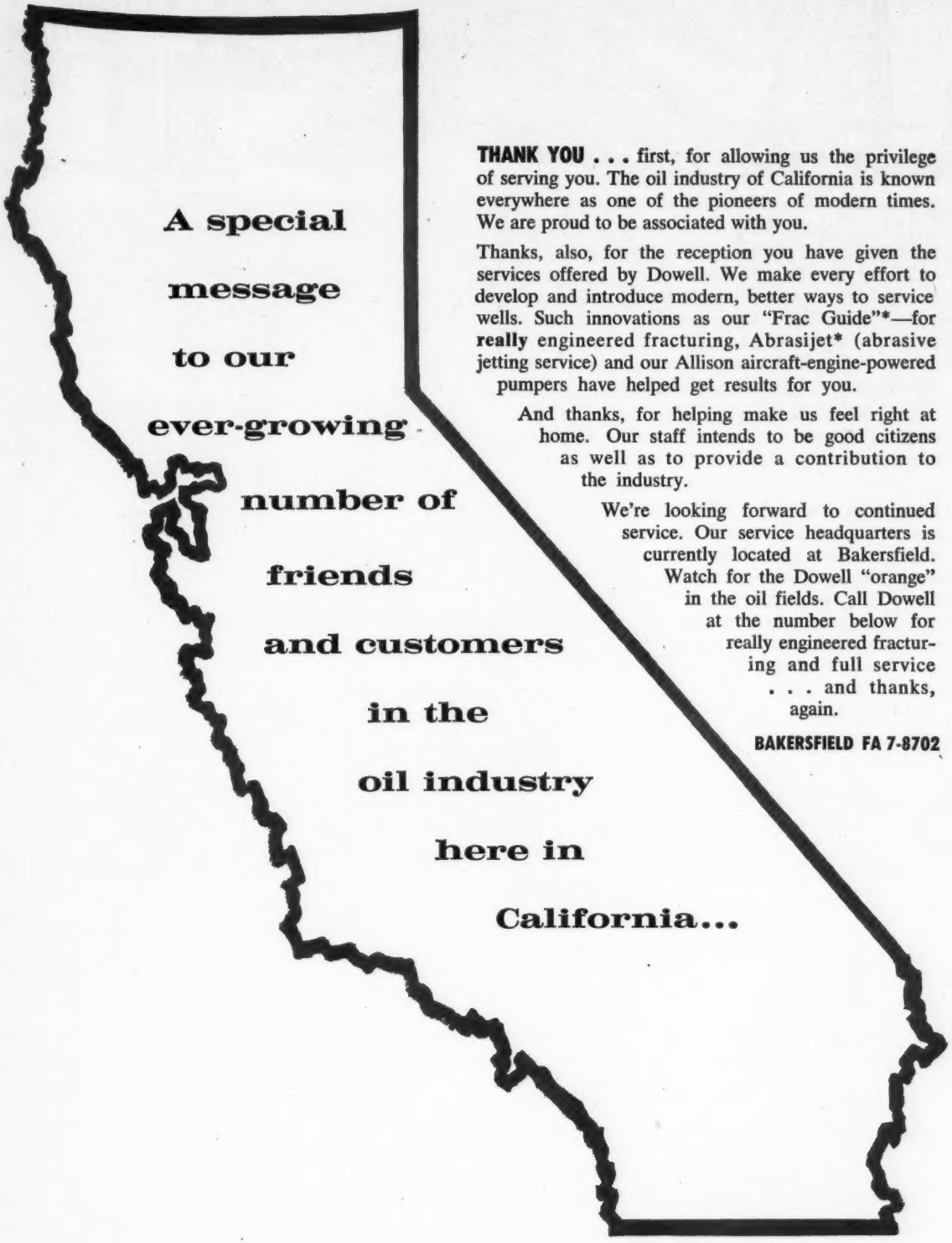
Oil Well Supply Promotions Announced by U. S. Steel

Appointments of two field representatives at Los Angeles for U. S. Steel's Oil Well Supply Division were announced recently by **D. S. Grubbs,** California area manager.

They are **Edward W. Metters,** formerly manager of "Oilwell's" Long Beach store, and **Curtis T. Deehr,** formerly field representative at the same location.

Metters joined "Oilwell" in 1950 at Los Angeles and transferred to Long Beach the following year. He served subsequently as store manager and district representative at Castaic Junction, then returned to Long Beach where he has held the position of store manager since November, 1958.

Deehr was employed by "Oilwell" in November, 1955 at Long Beach. He became district representative there in December, 1956 and since November, 1958 has served as field representative.



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Thanks, also, for the reception you have given the services offered by Dowell. We make every effort to develop and introduce modern, better ways to service wells. Such innovations as our "Frac Guide"*—for **really** engineered fracturing, Abrasijet* (abrasive jetting service) and our Allison aircraft-engine-powered pumpers have helped get results for you.

And thanks, for helping make us feel right at home. Our staff intends to be good citizens as well as to provide a contribution to the industry.

We're looking forward to continued service. Our service headquarters is currently located at Bakersfield. Watch for the Dowell "orange" in the oil fields. Call Dowell at the number below for really engineered fracturing and full service . . . and thanks, again.

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Services for the oil industry DOWELL

DIVISION OF THE DOW CHEMICAL COMPANY

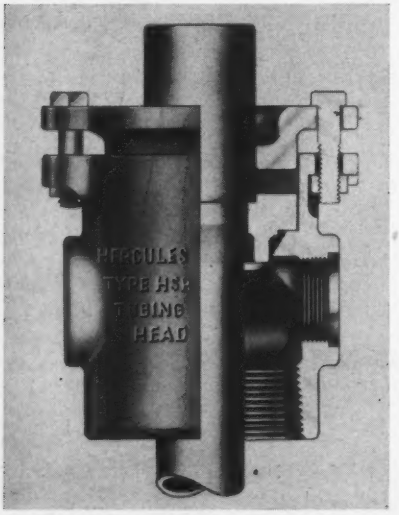
Tubing Head Features Versatility Plus Economy

A new collar-suspension tubing head, the Type HSR Tubing Head, is now being marketed by Hercules Tool Company, Tulsa, Oklahoma, for use on tubingless completions, water floods and shallow pumping wells of 2500 foot depth or less.

Available in 3½" OD, 4½" OD or 5½" OD female casing sizes. The 3" size body, with 3" minimum bore, suspends ¾" to ½" plain or EUE tubing. The 4½" OD and 5½" OD bodies have a 4" minimum bore and suspend ¾" to 2½" plain or EUE tubing.

Test pressure is 500 psi and maximum recommended load is 30,000 lbs.

Tubing is suspended with the coupling resting on a ductile iron support ring. The tubing head is packed off around the coupling by compressing the neoprene packing ring between the split metal packing and the support ring. Compression is applied by the packing gland that is drawn down by two gland bolts. The well connections do not have to be disturbed to repack this tubing head.



New collar-suspension tubing head

Garrett Corp. Experiments With New Type Pressure Booster

The Oil and Gas Supply Company of Houston, Texas has been appointed a gas and petroleum industry representative for certain AiResearch gas turbines and turbomachinery lines. The agreement was announced jointly by J.J. O'Brien, manager of The Garrett Corporation's AiResearch Manufacturing Division of Phoenix, Arizona, and Jack Joplin, president of Oil and Gas Supply.

Initial market analysis and technical advice in adaption of AiResearch small gas turbines to gas gathering applications were part of the agreement.

The two firms had previously cooperated on several projects utilizing the small gas turbines in oil field applications.

AiResearch developed the first successful small gas turbine engine in 1946 and since that time has become the world's largest producer of the lightweight turbomachinery.

Lost Circulation Kit Designed by Magcobar

Development of a new Magcobar lost circulation kit designed to explain the functioning of lost circulation materials in oil well drilling operations was announced by I. W. Hoskins, senior vice president—marketing, Magnet Cove Barium Corporation.

Lost Circulatoin is the loss of whole drilling mud to subsurface formations. Such losses are costly and impede drilling operations.

The new kit is designed to aid in the selection of proper lost circulation materials for various drilling conditions. It is made available to help drilling mud purchasers who are confused by the multiplicity of lost circulation materials marketed today under more than 100 different trade names.

Housed in a special box, the kit consists of samples of the ten basic lost circulation materials, a graphic illustration of a geologic subsurface cross

Magcobar Lost Circulation Kit

section, a listing of the product applications, and directions for correlating the product uses with the various types of lost circulation zones encountered in oil well drilling.

In conjunction with the kit, Magcobar has published a lost circulation bulletin. Comprised of two parts, it covers in 53 pages all phases of lost circulation problems and the materials required for solutions.

For more information, write Magnet Cove Barium Corporation, P. O. Box 6504, Houston 5, Texas.

NEW LITERATURE

Bulletin Illustrates Pumps And Their Working Parts

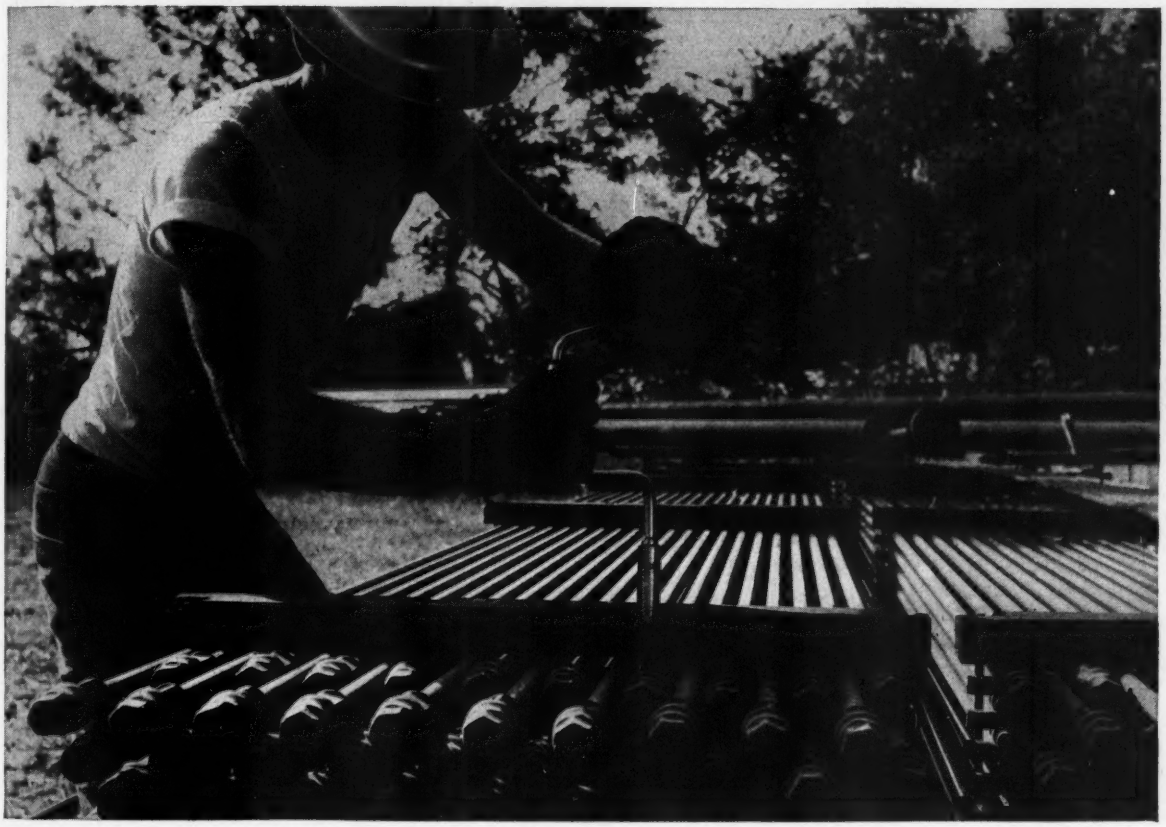
A new bulletin on D+B Two-Zone Subsurface Pumps and Chokes, covering features and applications, has been published by Continental-Emsco Company. Illustrated views of pumps and their working parts are included.

The 12-page bulletin is complete with engineering tables, a size and description table, and a sample calculation of a D+B two-zone pump installation.

Copies of this bulletin may be obtained from Continental-Emsco Company, P. O. Box 359, Dallas 21, Texas.

BETHLEHEM SUCKER RODS

...for dependable pumping



Socket wrench easily opens a bundle of Bethlehem sucker rods, tightly packed as a unit to prevent damage in transit. Special spacers separate and protect each rod.

Meticulous

That's the word to describe the way each Bethlehem sucker rod is guided with care through the entire cycle from manufacture to bundling and shipping.

Bethlehem also makes a complete line of sucker rod accessories. For further information on quality-controlled Bethlehem sucker rods, contact your nearby Bethlehem distributor. He's ready to serve you.

These five grades cover any pumping needs.

Rod	Type	Heat-Treatment	Yield Point-psi		Tensile Strength-psi	
			Min.	Av.	Min.	Av.
X2	Carbon-Manganese	Normalized	65,000	72,000	93,000	100,000
X Mayari	Nickel-Chromium	Normalized	60,000	65,000	90,000	95,000
46	Nickel-Molybdenum	Normalized and Tempered	67,000	75,000	82,000	90,000
43	Nickel-Chromium-Molybdenum	Normalized and Tempered	100,000	110,000	120,000	130,000
41	Manganese-Chromium-Molybdenum	Normalized and Tempered	100,000	110,000	120,000	130,000

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Field Development

Pacific Coast and "4" Corners

LOS ANGELES BASIN

Continental Drills Culver City Wildcat

Continental Oil Company is preparing to spud Culver City Unit B-4 No. 1, a wildcat test located near the intersection of Overland Avenue and Virginia Street in the southwest quarter of Section 7-2s-14w. Drill site for the test is on the west flank of the Inglewood field, ¾ of a mile southeast of its new field discovery at Culver City.

Rosemead Test Abandoned

Humble Oil & Refining Company drilled to a total depth of 7713 feet and after running logs plugged and abandoned Rosemead Oil Unit One No. 1. Location of the test was near the intersection of the San Bernardino Freeway and Rosemead Boulevard in Section 19-1s-11w.

Riverside County Test Abandoned

Alpoil Company's Prado Dam area wildcat test, Govt.-T.M.P.-D No. 1, located in the southwest quarter of Section 17-3s-7w, drilled to a total depth of 3625 feet and was plugged and abandoned. Logs were run but no tests were made on the well.

San Bernardino County Abandonment

Rueter Oil Company's shallow test in the Santa Ana Canyon area, Schweppes No. 1, drilled to a total depth of 1270 feet and has been abandoned. The well was located west of Prado Dam in the southwest quarter of Section 25-3s-8w.

Bouquet Canyon Well Testing

William P. Ward's Verde No. 1, a wildcat test located in the northeach quarter of Section 14-4n-16w, is installing pumping equipment for an open hole test. Total depth of the well is 2800 feet with 6⅝" casing cemented at 2675 feet.

NORTHERN CALIFORNIA

Bell Drills at Vernalis

Bell Petroleum Company is grading location for a 6500′ wildcat test approximately two miles northwest of the nearest gas production. Location for the test, Bell Petroleum-Elissagaray No. 45-36 is in the southwest quarter of Section 36-2s-6e in San Joaquin County.

Honolulu Wildcat Gas Test

In the Maxwell area of Colusa County, Honolulu Oil Corp. has awarded a contract to Brown Drilling Co. to drill Welch Unit No. 1 located in the southeast quarter of Section 29-17n-2w. The well will be a 7000-foot test and is five miles southwest of the Compton Landing Gas Field.

Yolo County Outpost Test

Artnell Company has staked location for Richfield-Universal-Standard-Artnell-Richey No. 2 in the southwest quarter of 35-11n-1w. The well will be a 3500-foot test of the Richey sand and is a northwest offset to its deeper pool discovery, Universal-Richey et al No. 1.

Contra Costa County Test

Four miles southeast of the Rio Vista Gas Field, McCulloch Oil Corp. of Calif. is preparing rig site for McColloch-KCL-Frank Tract No. 1, a wildcat gas test with the surface location in the northeast quarter of Section 13-2n-3e. With the surface location on the Holland Tract, the well will be directionally drilled and bottomed under the Frank tract.

Five Gas Wells

Pacific Gas and Electric Company has announced a five-well drilling program in the McDonald Island Gas Field. The first well of the five is preparing to spud. Three of the wells, McDonald Island Farms Nos. 9, 10 and 13, will be drilled in Section 25-2n 4e and two wells, McDonald Island Farms No. 11 and 12 are located in Section 30-2n-5e.

Solano County Gas Test

Amerada Petroleum Corp. is moving in rotary to drill Horigan No. 1 in the northeast quarter of Section 13-6n-1e near Binghamton. The test is approximately one mile north of the recently completed Rayn No. 1 and will be a 7000-foot test.

Contra Costa County Gas Test

Trico Oil and Gas Company is drilling below 3000 feet on Nevis Unit No. 3, an outpost test located in the southwest quarter of Section 16-2n-1w. The test is approximately ½-mile southeast of the recently completed new pool discovery well, Neustaeder No. 1.

Texaco Gas Test Abandoned

In the Webster area of Yolo County, Texaco Inc., drilled to a total depth of 7130 feet on T. S. Glide No. 1 and after running logs plugged and abandoned the test. Location of the well was in the southeast quarter of Section 3-8n-3e.

McMullen Ranch Outpost Test

Great Basins Petroleum Company is drilling below 1200 feet on Signet-Luck No. 77X-25 located in the southeast quarter of Section 25-2s-6e in San Joaquin County. The well is located approximately 3500 feet southwest of present production and will test the Tracy and Blewett sands.

Rio Vista Wildcat Abandoned

E. C. Brown, Operator, drilled to

When Buying Blowout Preventers

Why take *less* than SHAFFER'S "SWING-OPEN" RAM CHANGES?

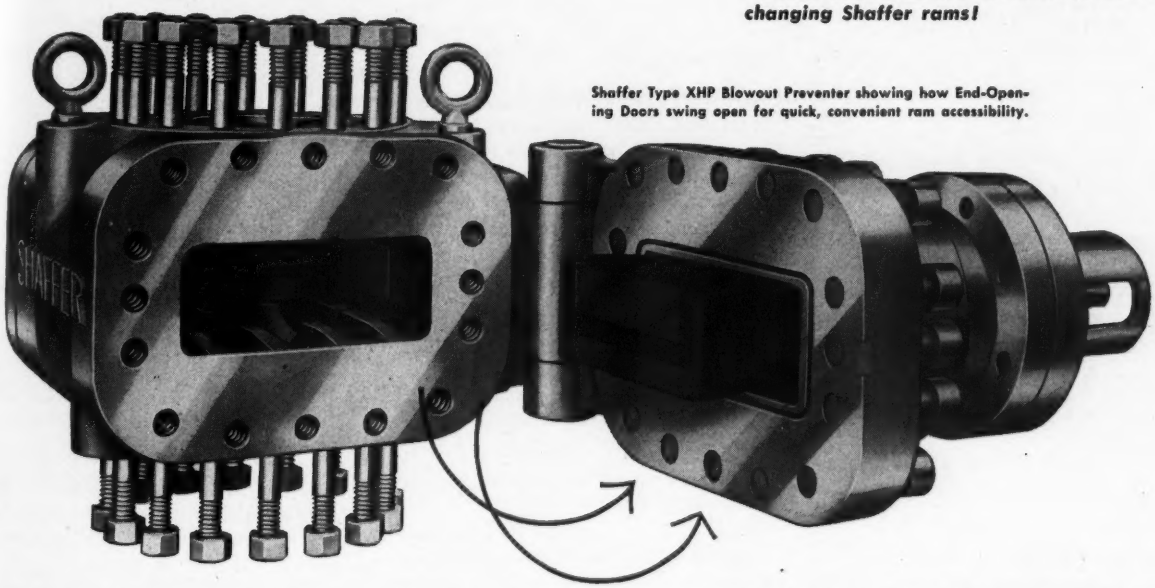
Side Doors Permit Quick Ram Changes.

During drilling programs the pipe rams must be changed with every change in drill pipe size. Moreover, whether or not ram changes are necessary, it is a good idea to periodically inspect the ram compartments as a safety check-up during the drilling program. In no other blowout preventer are the ram compartments so easy to service or inspect as in Shaffer Preventers...

1 ***Simply unbolt and swing open a door (the Type B and Type E have side-opening doors ...the Type XHP and Type LWS have end-opening doors) and the ram compartment is exposed for quick ram changes or inspection.***

2 ***In Shaffer Double Gates each compartment has its own doors. There is no need to dismantle the gate or the hook-up in order to reach either ram compartment, for each is quickly accessible with equal "swing-open" convenience.***

3 ***Also, where multiple assemblies are used in the pressure control hook-up, Shaffer's side-opening and end-opening designs are far quicker to service than are top-opening designs where extra clearance must be provided above the preventer in order to remove and insert the rams. Obtaining this extra clearance frequently necessitates removing other equipment above the gate, thus wasting man-hours and complicating the entire ram-changing procedure. No such difficulties are encountered when changing Shaffer rams!***



Shaffer Type XHP Blowout Preventer showing how End-Opening Doors swing open for quick, convenient ram accessibility.

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TYPE LWS for portable blowout prevention on quick in-and-out production jobs (weighs only 780 lbs. in 7-1/16" Bore Size)!

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a total depth of 6696 feet on Upham No. 1 and after running logs plugged and abandoned the test. The abandonment was located in the southeast quarter of 27-3n-2e three miles southwest of the Rio Vista Gas Field.

Stockton Area Gas Test

Porter Sesnon et al is grading roads and rig site for Sesnon-Rheem No. 63-27 to be drilled in the northeast quarter of Section 27-1n-7e. Location of the wildcat test is six miles southeast of the town of Stocktown in San Joaquin County.

Two Standard Outpost Tests

Standard Oil Company has staked location for two outpost tests in the Vernalis Gas Field. Blewett Community No. 13 will be drilled in the southeast quarter of Section 26-3s-6e and Blewett Community No. 14 in the southwest quarter of Section 24-3s-6e.

Yolo County Gas Test

Humble Oil & Refining Company has staked location for a gas test on the University of California property near the town of Davis. The test, University of California No. 1, will be drilled in the northwest quarter of Section 20-8n-2e.

COASTAL AREA

El Rio Wildcat For Standard

Standard Oil Company of Calif. is grading roads and rig site for a Ventura County wildcat test, Dolly Brigham et al No. 1, to be drilled in the northwest quarter of Section 23-2n-22w.

Oxnard Field Development Test

Standard Oil Co. is drilling below 5700 feet on Hooker-Daily-Line Well No. 1, a development well in the Oxnard field. Location of the well is in the southwest quarter of Section 12-1n-22w and is approximately 1½ miles from production.

Offshore Well Completed

Offshore from Gaviota in Santa Barbara County, Standard Oil Company completed Standard-Humble-Gaviota State No. 4 flowing from a total depth of 9007 feet. None of the completion details has been released .Location of the well is in projected Section 35-5n-32w.

Standard Redrills Montalvo Well

Standard Oil Company is moving in rotary to redrill McGrath 4 No. 1214, originally completed as well No. 1213 from a total depth of 13,000 feet flowing 400 b/d of 21 gravity clean oil. Located in Section 35-2n-23w, the well will be redrilled from approximately 1500 feet.

Piru Deep Test

Kenneth H. Hunter, Jr. is starting Colinia No. 1 located in the Nigger Canyon area of the Piru Field, in the southwest quarter of Section 17-4n-18w. The well is scheduled to go to 7000 feet and hopes to develop production below the San Cayetano thrust fault.

Orcutt Field Well

Union Oil Company of Calif. is preparing to drill Squires No. 38, a proved field development well. Location of the well is in the northwest quarter of Section 26-9n-34w.

Summerland Offshore Test

Standard Oil Company is preparing to spud Standard-Humble-Summerland State No. 17 offshore from Summerland. The test is located in projected Section 35-4n-26w and is the first well to be drilled from Platform Hilda.

Gaviota Offshore Test

Standard Oil Company is drilling below 1000 feet on Standard-Humble-Gaviota State No. 5 offshore from Gaviota in projected Section 35-5n-32w. The well is a westerly offset to the recently completed Standard-Humble-Gaviota State No. 4.

SAN JOAQUIN VALLEY

Shell Discovers New Gas Field

Shell Oil Company completed Unit No. 15 flowing 4200 mcf of gas per day for a new Kern County gas discovery. Flow was from several spots gun perforated within the interval 2898-2805 feet through a 28/64" bean with flow pressures of 932/1020psi. Shut in pressures were 1094/1094 psi. Located 1½ miles north of the Antelope Hills production in the southwest corner of Section 9-27s-19e, the discovery was drilled to a total depth of 3600 feet and redrilled to 3020 feet. 4½" casing is cemented at 2985 feet. The new producing area has been named the Shale Flats Gas Field.

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8/15b

New Shallow Field Discovery

Pauley Petroleum, Inc., completed Bell-Potter No. 1, a new field discovery, pumping 20 b/d of 26 gravity with a cut of 14 per cent water from the perforated interval 846-908 feet. The completion is located in the northeast quarter of Section 26-11n-24w, 3½ miles south of the town of Maricopa. Drilled to a total depth of 1055 feet and plugged back to 908 feet, 7" casing is cemented at 846 feet.

North Tejon Well Tested

Reserve Oil and Gas Company is drilling below 9700 feet on W. T. No. 334-19 after an open hole test of the Upper Z-1 Sand interval 9379-9545 feet. The test resulted in a flow of 920 b/d of 34.7 gravity oil with a cut of 0.1 per cent mud. Flow was through 48/64" bean. Location of the well is in the northwest quarter of Section 19-11n-19w.

New Pool Wildcat Test

In the Buena Vista Hills field, Standard Oil Company has staked location for Well No. 526-21B in the southwest quarter of Section 21-31s-23e. The well is scheduled to be drilled to about 9000 feet.

Mountain View Recompletion

Dolley, Morton and Dolley, after redrilling and deepening to a total depth of 6300 feet, recompleted Symons-CWOD No. 5 flowing 185 b/d of 27 gravity oil with a cut of 0.1 per cent. Flow was through a ¼" bean from the Lower Santa Margarita, perforated from 6223-6199 feet and 6194-6176 feet. Located in the northwest quarter of Section 4-31s-29e, the well was first completed by the Hogan Petroleum Company from a total depth of 6180 feet.

Two Wildcat Tests For McCulloch

McCulloch Oil Exploration Co. of Calif., Inc., spudded the first of two wildcat tests in the Semitropic area. McCulloch-Arrowhead-KCL 444 No. 1, located in the northwest quarter of Section 30-27s-24e ½-mile east of the Semitropic Gas field, is drilling below 1350 feet. The second well, McCulloch-Arrowhead-KCL No. 447 No. 1, will be a 6100-foot test and is located in the southwest quarter of Section 18-27s-24e ½-mile south of the Wasco Field.

Tico Gas Field Test

Standard Oil Company is grading location for Rideout No. 2, a field development well, to be drilled in the southeast quarter of Section 34-24s-23e.

McDonald Anticline Field

Laymac Corp. (Glenn Ferguson) has awarded a contract to Raymond Plyler to drill Honolulu-Layman Unit No. 14. The well is located in the northwest quarter of Section 18-28s-20e.

Wheeler Ridge Completion

Richfield Oil Corp. completed Richfield-Mohawk-Wheeler Ridge Community No. 15-30 flowing 275 b/d of 41.6 gravity oil with a cut of 4 per cent. Flow was through a 16/64" bean from the perforated intervals 9361-9177, 8425-8419 feet. Located in the southwest quarter of Section 30-11n-19w, the completion was drilled to a total depth of 9363 feet and cemented 7" casing at 9182 feet.

Mountain View Edge Test

Shaffer Rentals, Inc., of Brea has staked a location for Brite No. 78-16 in the southeast quarter of Section 16-31s-29e. The well will be a 9000-foot test.

Monocline Ridge Test Abandoned

Steele Petroleum Company abandoned its Fresno County wildcat test at a total depth of 2008 feet. The well, Cantua No. 1, was located in the northwest quarter of Section 33-16s-13e.

Southeast Burrel Well

Arrowhead Exploration Company is preparing to spud Kochergen Unit No. 13-8 located in the northwest quarter of Section 8-17s-19e. The well is a southeast offset to production.

Fresno County Wildcat

Standard Oil Company has staked location for a new pool wildcat test in the southwest quarter of Section 7-21s-17e. The well, No. 327-7J, is one mile southeast of the Guijarral Hills Field and approximately ½-mile north of Kettleman North Dome production.

Three Coalinga Field Wells

Standard Oil Company has staked locations for three development wells in the field. All three wells, Nos. 146-11A, 147-11A and 205-11A, will be drilled in the northwest quarter of Section 11-19s-15e.

North Tejon Test Abandoned

Richfield Oil Corp. plugged and abandoned Berry No. 21-30 after a formation test of interval 11,037-11,385 ft. recovered 220 ft. of oil and mud. Located in the northwest quarter of Section 30-11n-19w, the well was drilled to a total depth of 11,185 feet.

Wheeler Ridge Field Test

In the Windgap area, Richfield Oil Corp. is grading location for KCL-L No. 47-36, a field development well in the southwest quarter of Section 36-11n-20w.

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Welex, which recently added the Sidekicker to its list of Permanent Well Completion tools, now offers the most complete selection of PWC services to the industry.

Whether single or multiple completion, Welex on your well assures fast, safe and accurate service with a minimum of delay. That's why many Welex services and tools are standards of the industry, including:

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OTHER AREAS

Alaska

Standard Oil Company of Calif. and Richfield Oil Corp. spudded a new test on the Kenai Peninsula, and are drilling below 3200 feet on Swanson River Unit No. 12-15 located in Section 15-8n-9w, Seward Base & Meridian. Two other tests are being drilled by the operator. Swanson River Unit No. 32-33 in Section 33-8n-9w is drilling below 10,715 feet and Soldotna Creek Unit No. 14-4 in Section 4-7n-9w, after cementing to regain lost circulation, drilled ahead to a total depth of 11,520 feet and is cementing casing.

Standard Oil Company of California drilled to 12,046 feet on Swanson River Unit No. 2 and with 7" casing cemented at 11,650 feet is production testing the Hemlock Zone. The well is located in Section 27-8n-9w.

On Cape Fairweather, Colorado Oil and Gas Co. is drilling below 2810 feet on Dangerous River No. 1 located in Section 17-29s-37e. The well will be an 8500-foot test.

Halbouty Alaska Oil Company's Soldotna Creek area test, Well No. 1 in Section 21-6n-9w, is drilling ahead below 10,225 feet.

Colorado

Richard F. Shaheen and Decker Drilling Company completed Reed No. 1 as a new Morgan County discovery pumping 110 b/d of clean oil from a casing notch in the D Sand at 5685 feet. Top of the D Sand was logged at 5674 feet. Located 2½ miles northwest of the D Sand production at the Lamb Field in the southwest quarter of Section 33-4n-58w, the well was drilled to a total depth of 5748 feet and has 5½" casing cemented on bottom.

Locations for two new wildcats in the Denver Julesburg Basin are being surveyed. Both are in Logan County. Samuel Gary will drill State-Ferris No. 1 in the northeast quarter of Section 5-6n-53w two miles south of the Atwood Field, and one mile northeast of the Coyote Field location is being graded for State-Fiebig No. 1 in the northeast quarter of Section 7-6n-52w.

Moran Brothers of Wichita Falls, Texas, have announced location for six wildcat tests in Baca County in the extreme southeast corner of the state. Homsher No. 1 is located in the southwest quarter of Section 30-28s-47w, Goering No. 1 in the southeast quarter of Section 12-32s-48w and Rice No. 1 in the northeast quarter of Section 12-32s-49w. All three wells will be 6000-foot Mississippian tests. McArthur No. 1 located in the northwest quarter of Section 8-33s-50w and Cramer No. 1 located in the southeast quarter of Section 12-33s-50w will test the Arbuckle. A 5000-foot Granite test, Singer No. 1, will be drilled in the northwest quarter of Section 3-35s-50w.

Montana

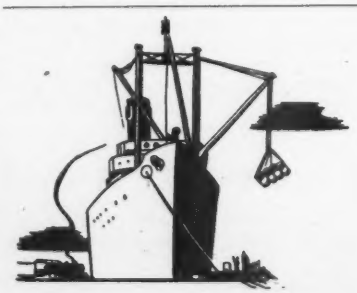
Sumatra Oil Company has a new Musselshell County discovery with the completion of its Stensvad No. 2 flowing 225 b/d of clean oil through a ¼" bean with 150 psi flow pressure. The producing zone in the Tyler logged from 4605-4595 feet. The discovery is three miles south of the Ivanhoe Field production and is located in the northeast quarter of Section 35-11n-30e. The completion was drilled to a total depth of 4670 feet and cemented 5½" casing at 4668 feet.

Gulf Oil Corp. and Pan American Petroleum Company are building roads and rig site for a Glacier County deep wildcat test to be drilled in the southwest quarter of Section 3-30n-12w. Located in the Dawson Lake area five miles southeast of the town of East Glacier, the well will be a 9300-foot Mississippian test.

The Superior Oil Company is drilling below 1000 feet on Blackfeet Tribal No. 23-19 located in the southwest quarter of Section 19-37n-14n, Glacier County. Located in the Chief Mountain area four miles south of the Canadian border, the well is scheduled to test the Madison at approximately 12,700 feet.

Nebraska

Murfin Drilling Company completed Barth No. 1 pumping 150 b/d and a small amount of mud and water from the Regan perforations 3425-3418. This is the first Cambrian production in Western Nebraska. Located in the southwest quarter of Section 25-3n-27w in Redwillow county, the well was drilled to a total depth of 3490 feet and cemented 5½" casing at 3488 feet. Closest production to the new discovery is the Ackman Field approximately eight miles to the southwest.



Nevada

Churchill Drilling Corp. has spudded another wildcat test, Lima No. 1, in the Fallon area. Located in Section 3-18n-28e in Churchill County, the test is drilling below 200 feet.

New Mexico

Rig sites are being prepared for two McKinley County wildcats. Gadd is Mining Company is grading roads for Federal-A No. 2-7 to be drilled in the southeast quarter of Section 7-19n-5w. Located ¾-mile northeast of production, the well will be drilled to approximately 2000 feet to test the Menefee. Two and one-half miles southeast of production, American Fiber Company has staked a location for Santa Fe No. 1 in the southeast quarter of Section 30-19n-5w. The well is being drilled on a farmout from the Sinclair Oil & Gas Company and will be a Gallup test at about 3150 feet.

Val R. Reese & Associates completed Mesa No. 1-25 as a dual completion flowing 1723 mcf of gas per day from the Gallup and 546 mcf per day from the Dakota. Located in the northwest quarter of Section 25-24n-7w in San Juan County, the completion is an extension to the Devils Fork Field. Drilled to a total depth of 6557 feet, 5½" casing was cemented at 6557 feet and perforated the Gallup from 5506-5274 feet. The Dakota was perforated at four spots within the interval 6433-6264 feet. Both zones were oil sand frac'd.

North Dakota

The California Company is grading rig site for Kitzman-Bank of North Dakota No. 1 in the northwest quarter of Section 5-158n-80w in McHenry County. The well will be a Madison test and is a confirmation to its last month's McHenry County discovery.

Hunt Petroleum Company has made a location for Cooksley No. 2 in the northwest quarter of Section 34-161n-94w in Burke County. Proposed depth of this Madison test is 8000 feet. Nearest production is at the North Tioga Field, two miles west.

Oregon

Humble Oil & Refining Company spudded its Lake County wildcat test

and is drilling below 1575 feet. The well, Thomas Creek Unit 3 No. 1, is located in Section 18-36s-18e.

Utah

On a drill stem test of the interval 6[illegible]2-5844 feet, Pure Oil Company's northwest Lisbon No. C-2 well flowed 3[illegible] barrels of clean oil in 5½ hours with the gas flow gauged at 940 mcf per day. Flow was through a ½" bean with 300 psi. Later through a 1" bean gas flow increased to 1400 mcf with the pressure dropping to 125 psi. Although not officially identified by the operator, production is probably from the Paradox (Pennsylvanian) and if so will be a new producing zone in the Lisbon Field. Located in the northwest quarter of Section 3-30s-24e in San Juan County, the hole is being conditioned at its present depth of 6[illegible]32 feet. The addition of Pennsylvanian production to the already proven Devonian and Mississippian is a discovery of major importance to the area.

Shamrock Oil and Gas Company has staked location for Unit No. 1, a 7500-foot Mesaverde test in the southeast quarter of Section 10-11s-22e in Uintah County. The well is a new area wildcat test five miles south of the Bitter Creek Field.

Wyoming

Raymond I. Smith has staked a location for a 6000-foot Hilliard test in Sublette County. The test, Mickelson Creek Unit No. 3, is located in the southwest quarter of Section 29-32n-114w and is about ½-mile east of Unit No. 2 now flowing 30 b/d from the Mesaverde perforations 3549-3536 feet and from a casing notch at 3546 feet.

About ten miles east of the Hiawatha Field, Champlin Oil & Refining Company is building roads and rig site for Federal-Damewood No. 1, a wildcat test, to be drilled in the southeast quarter of Section 14-12n-98w in Sweetwater County. The well is scheduled to go to about 10,500 feet to test the Mesaverde.

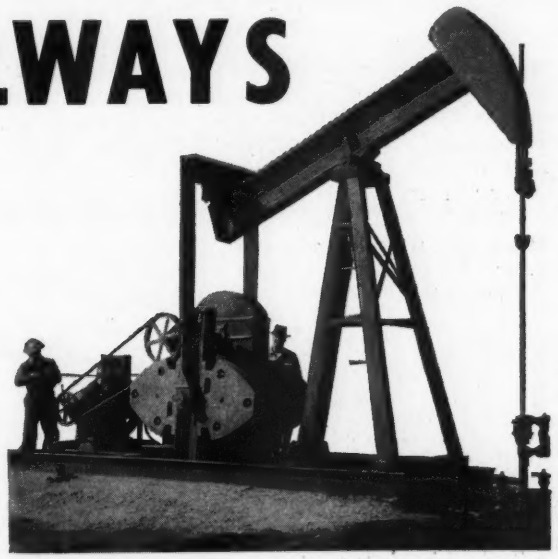
Union Oil Company of California has announced a location for a Dakota test to be drilled in Niobrara County. Scheduled to go to 8100 feet, the test will be located in the southeast quarter of Section 29-37n-64w five miles north of the East Lance Creek field, which produces from the Dakota.

Shell Oil Company is drilling out cement to test its Fremont County wildcat, Unit No. 14-12, located in the southwest quarter of Section 12-3n-2e fourteen miles east of the oil production at Pilot Butte. The well was drilled to a total depth of 6505 feet and cemented 5½" casing at 6488 feet. Previous tests before cementing casing indicated commercial gas production from the Wind River and Fort Union zones.

After drilling to a total depth of 7450 feet and running logs, Jeff Hawks is preparing to abandon Government No. 1 located in the southeast quarter of Section 30-52n-68w in Crooks County. Slight shows were logged in the Muddy, Dakota, and the Minnelusa, and a test of the interval 7389-7341 feet recovered oily muddy water. The abandonment was 2½ miles northwest of the Miller Creek Field.

Continental Oil Company completed Twiford-Farney No. 20-4, an extension tests of the Miller Creek Field, flowing 330 b/d of 33 gravity clean oil through a 12/64" bean. Production is from the Dakota perforations at 6006 feet, 6000 feet and 5944 feet. Located in the northeast quarter of Section 20-51n-68w in Crooks County, the well was drilled to a total depth of 6055 feet and cemented 7" casing on bottom.

ALWAYS



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He was one of the town cut-ups, so when the preacher met him on the street and stopped to pat him on the back and shake his hand, he was at a loss to understand what it was all about. Then the preacher said:

"Henry, I'm delighted that you have evidently decided to turn over a new leaf. It was a great joy for me to see you at the church meeting last night."

The clouds began to clear.

"Oh!" said Henry. "So that's where I was."

The symphony conductor had worked patiently for over an hour trying to get the French-horn player to understand a certain passage. At last, the conductor turned to the other musicians. "We can't delay any longer," he said. "We'll proceed with the next movement." Then, turning back to the French-horn player, he added, "You'll keep in touch with us, won't you?"

Friend: "Hello, Bill, haven't seen you for years. Who're you working for now?"

Bill: "Same people—wife and six kids."

The teacher was checking her students' knowledge of proverbs. "Cleanliness is next to what?"

A small boy replied with feeling: "Impossible!"

Uncle: "You boys of today want too much money. Do you know what I was getting when I married your aunt?"

Nephew: "No, and I'll bet you didn't either."

Wife: "Harry Smith takes his wife with him wherever he goes."

Husband: "Of course he does. She's so ugly he'd rather do that than kiss her goodby."

Then there was the Scotsman who bought only one spur; he figured if one side of the horse would go, the other side would go also.

Immediately after landing his space ship on Earth, a Martian wandered into the nearest bar with every tube in his head spasmodically glowing on and off in a wide array of blues, reds and greens. While sipping his third Scotch and soda, he noticed a man inserting a coin in the juke box, causing the lights of the music machine to glow on and off in the same colors as his own. He ambled over to the juke box, stared for a moment, then queried, "Now tell me, what is a nice girl like you doing in a joint like this?"

We have it on good authority that the addition of a glass of beer often improves the flavor of a pinch of salt.

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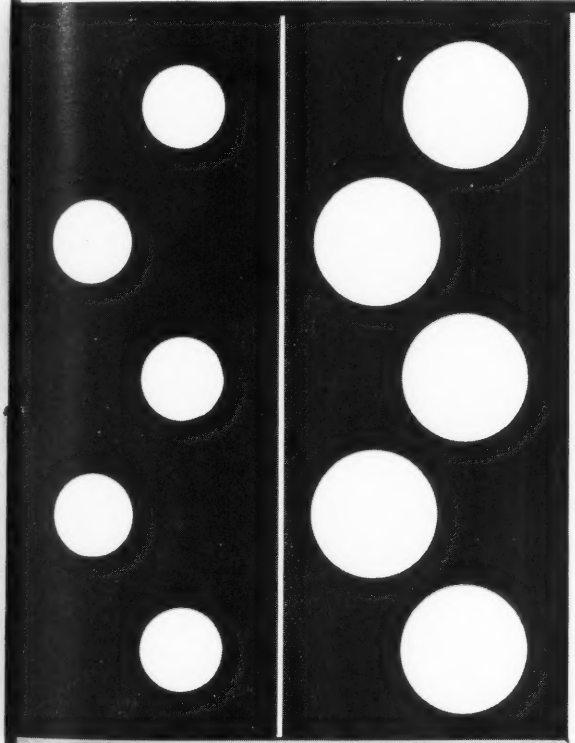

Comparison of area of standard perforations (above, left) and 780 Super E perforations (above, right).

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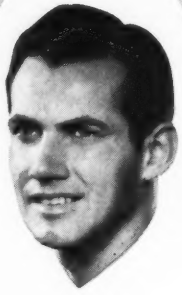
Correct selection and most effective use of petroleum inhibitors and additives involves expert analysis and consideration of many factors relating to your feedstock and methods of processing. As specialists for over a quarter-century, UOP is able to provide unparalleled field service, brought to you by a member of our staff of Product Sales Engineers. For detailed information on the UOP family of superior inhibitors and additives, call or write our Products Department.



UOP®

WHERE RESEARCH TODAY MEANS PROGRESS TOMORROW

UNIVERSAL OIL PRODUCTS COMPANY

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